

# FE2owlet

for single phase alternating current, 2 pole

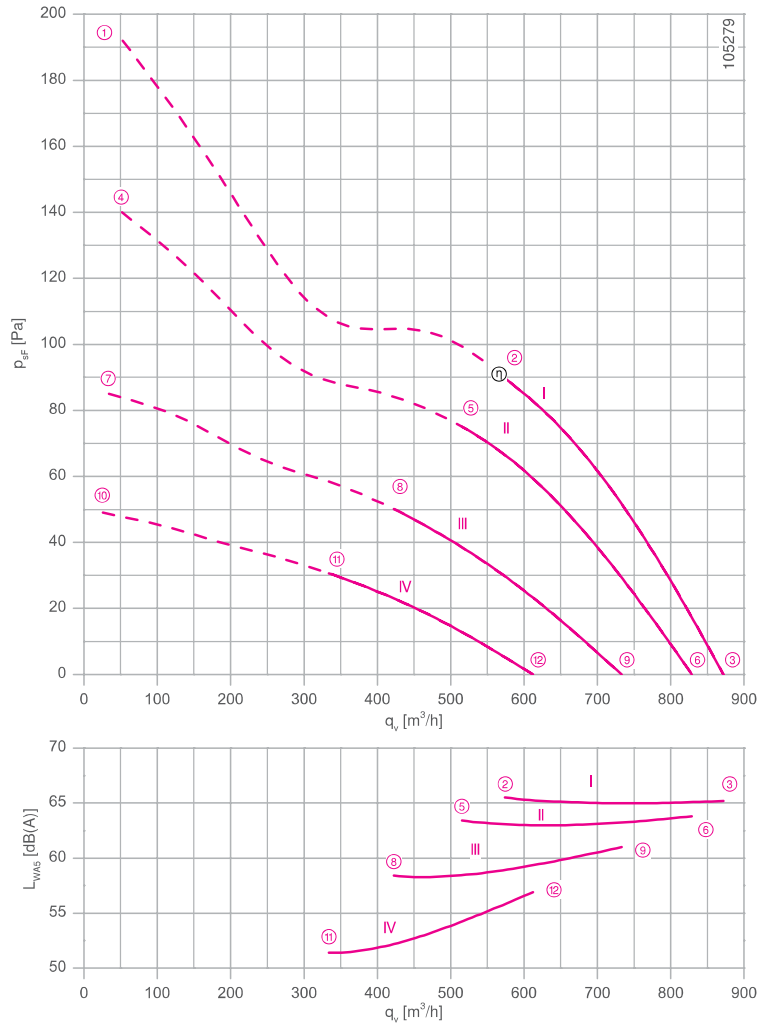
FNO20-2E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 0.08 kW\*  
 Rated current  $I_N$ : 0.38 A\*  
 Rated speed  $n_N$ : 2550 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 0.65 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 1.5  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 60 °C  
 Electrical connection: Supply cable variable 45 cm  
 Number of blades: 7  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, ultramarine blue  
 Conformity: CE  
**ErP-data**  
 Not subject to the regulations of ErP directive ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

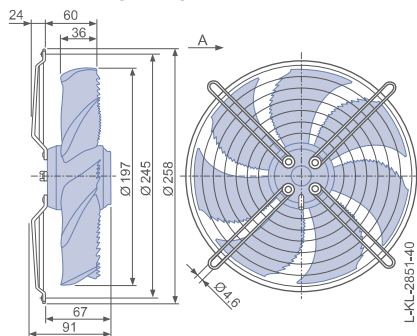
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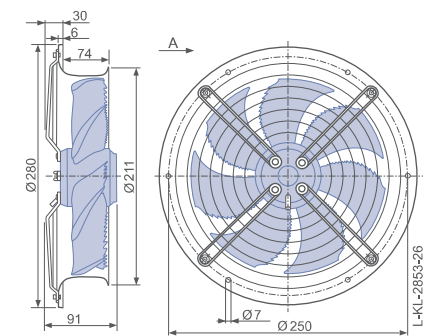
## Dimensions mm

Airflow direction A

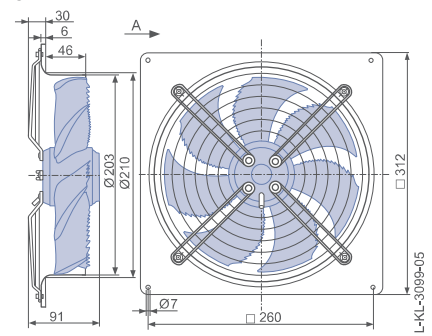
Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design L - round full bell mouth, guard grille suction side



Design Q - square full bell mouth, guard grille suction side



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P <sub>1</sub> W	n min <sup>-1</sup>	L <sub>WA5</sub> dB(A)
FN020-2E_W6_7	I	230	①	0.39	80	2430	
		230*	②	0.38*	75*	2550*	66
		230	③	0.36	70	2670	65
	II	170	④	0.34	55	2080	
		170	⑤	0.30	50	2300	63
		170	⑥	0.25	42	2530	64
	III	135	⑦	0.32	42	1600	
		135	⑧	0.29	38	1900	59
		135	⑨	0.25	32	2230	61
	IV	110	⑩	0.28	30	1210	
		110	⑪	0.27	30	1490	52
		110	⑫	0.24	26	1880	57

\*rated data

Fan ordering information

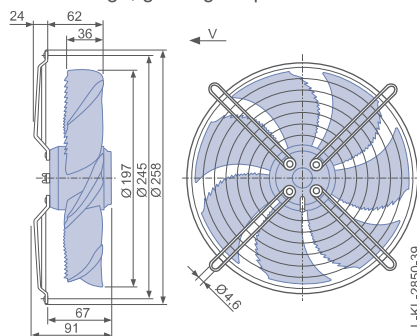
Airflow direction A			Airflow direction V			
Design	D (guard grille suction side)	L (guard grille suction side)	Q (guard grille suction side)	I (guard grille pressure side)	H (guard grille pressure side)	Q (guard grille pressure side)
<b>Type Article no.</b>	<b>FN020-2ED.W6.A7 164257</b>	<b>FN020-2EL.W6.A7 164258</b>	<b>FN020-2EQ.W6.A7 164259</b>	<b>FN020-2EI.W6.V7 164261</b>	<b>FN020-2EH.W6.V7 164260</b>	<b>FN020-2EQ.W6.V7 164262</b>
Weight kg	1.90	2.60	3.00	1.90	2.60	3.00

Control technology

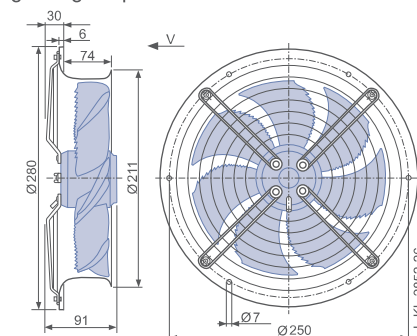
Frequency inverters Fcontrol 1~  Page 474	Motor protection units 1~  Page 518	Electronic voltage controllers 1~  Page 492
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Airflow direction V

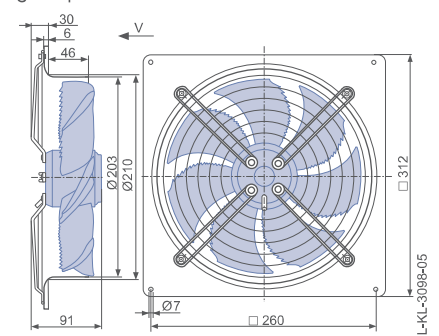
Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side



Design Q - square full bell mouth, guard grille pressure side



# FE2owlet

for single phase alternating current, 4 pole

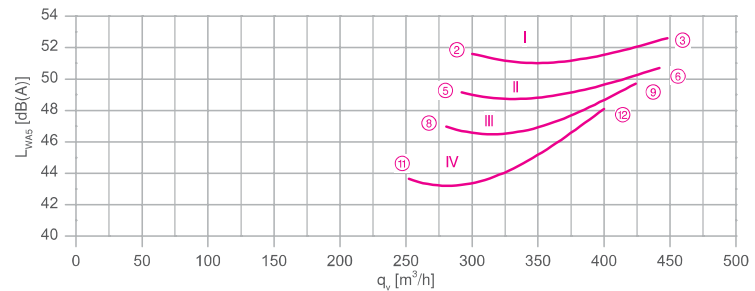
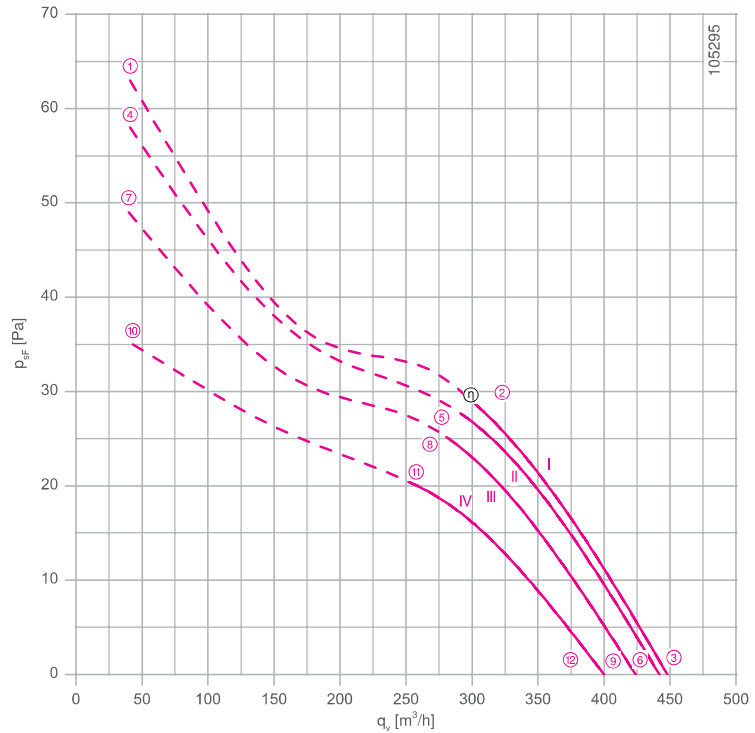
FNO20-4E



### Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 0.03 kW\*  
 Rated current  $I_N$ : 0.15 A\*  
 Rated speed  $n_N$ : 1420 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 0.28 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 1.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Supply cable variable 45 cm  
 Number of blades: 7  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, ultramarine blue  
 Conformity: CE  
**ErP-data**  
 Not subject to the regulations of ErP directive ( $P_i < 125$  W)  
 \* Rated data

### Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

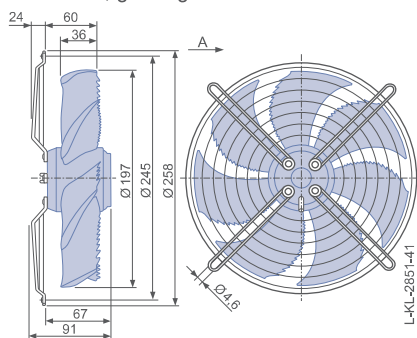
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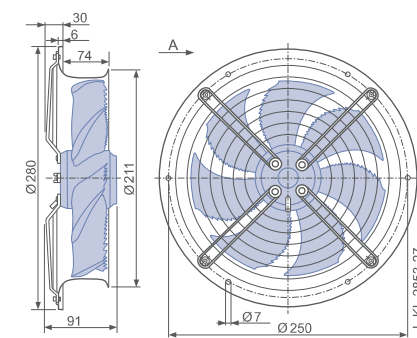
### Dimensions mm

Airflow direction A

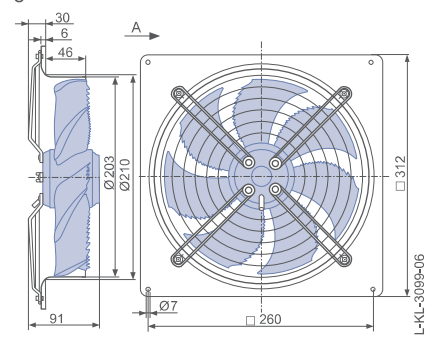
Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design L - round full bell mouth, guard grille suction side



Design Q - square full bell mouth, guard grille suction side






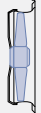


Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P <sub>1</sub> W	n min <sup>-1</sup>	L <sub>WA5</sub> dB(A)
FN020-4E_W6_7	I	230	①	0.15	32	1400	
		230*	②	0.15*	30*	1420*	52
		230	③	0.15	30	1440	53
	II	170	④	0.11	19	1340	
		170	⑤	0.11	17	1380	49
		170	⑥	0.10	16	1410	51
	III	135	⑦	0.10	14	1240	
		135	⑧	0.09	13	1310	47
		135	⑨	0.08	11	1370	50
	IV	110	⑩	0.10	11	1080	
		110	⑪	0.09	10	1190	44
		110	⑫	0.08	9	1290	48

\*rated data

Fan ordering information

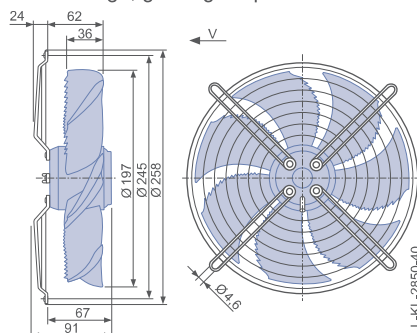
Airflow direction A			Airflow direction V			
Design	D (guard grille suction side)	L (guard grille suction side)	Q (guard grille suction side)	I (guard grille pressure side)	H (guard grille pressure side)	Q (guard grille pressure side)
						
<b>Type</b>	FN020-4ED.W6.A7	FN020-4EL.W6.A7	FN020-4EQ.W6.A7	FN020-4EI.W6.V7	FN020-4EH.W6.V7	FN020-4EQ.W6.V7
<b>Article no.</b>	164263	164264	164265	164267	164266	164268
<b>Weight kg</b>	1.90	2.60	3.00	1.90	2.60	3.00

Control technology

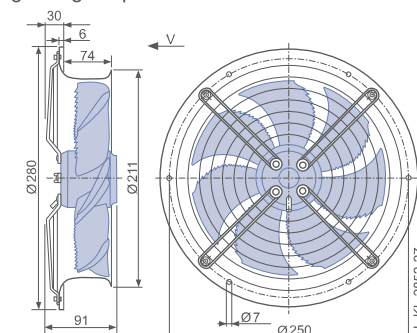
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Airflow direction V

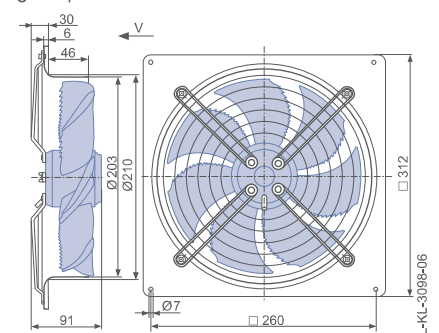
Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side



Design Q - square full bell mouth, guard grille pressure side



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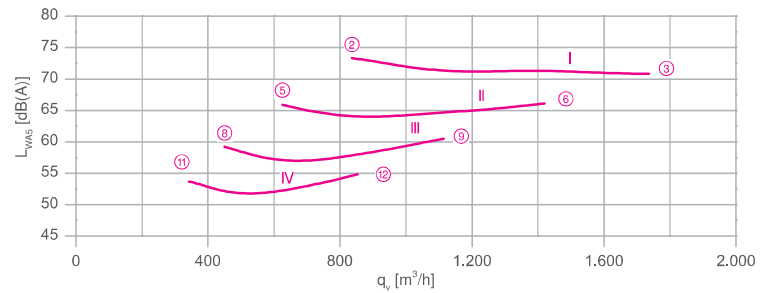
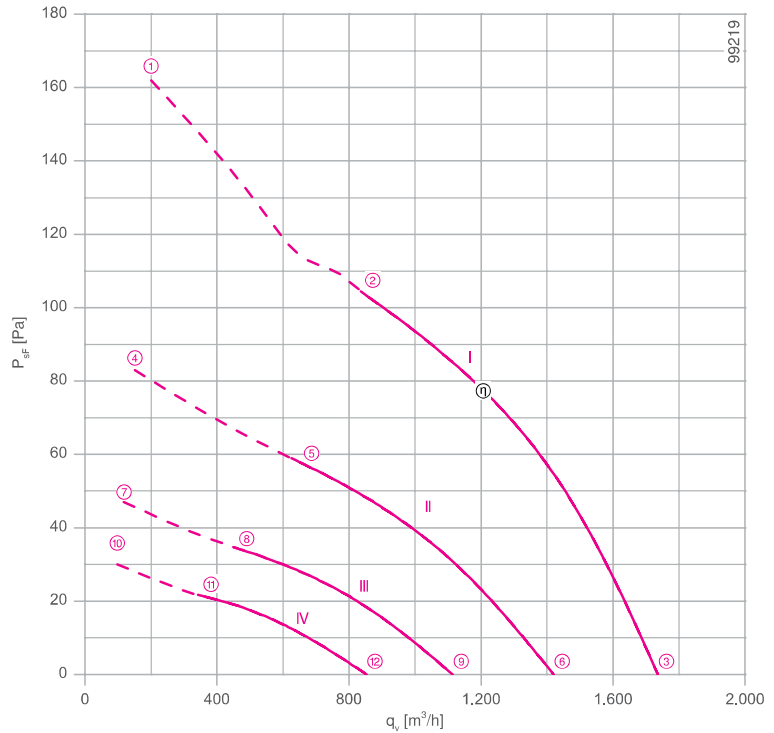
FN025-2E



### Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 0.12 kW\*  
 Rated current  $I_N$ : 0.54 A\*  
 Rated speed  $n_N$ : 2160 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 0.75 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 3.5  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 65 °C  
 Electrical connection: Supply cable variable 45 cm  
 Number of blades: 7  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, ultramarine blue  
 Conformity: CE  
**ErP-data**  
 Not subject to the regulations of ErP directive ( $P_i < 125$  W)  
 \* Rated data

### Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

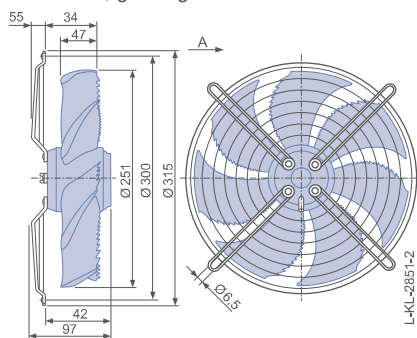
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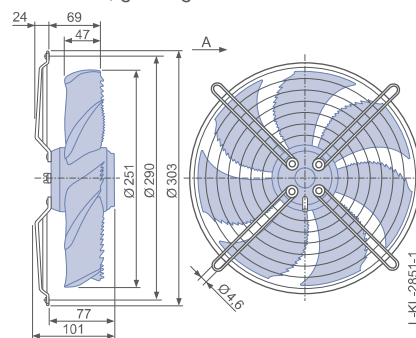
### Dimensions mm

Airflow direction A

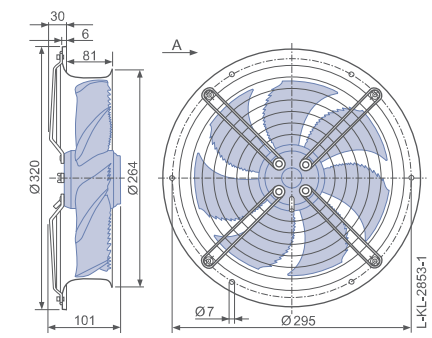
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design L - round full bell mouth, guard grille suction side






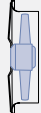


Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P <sub>1</sub> W	n min <sup>-1</sup>	L <sub>WA5</sub> dB(A)
FN025-2E_WA_7	I	230	①	0.58	140	1900	
		230*	②	0.54*	120*	2160*	73
		230	③	0.48	110	2410	71
	II	170	④	0.48	85	1370	
		170	⑤	0.46	80	1630	66
		170	⑥	0.44	75	1970	66
	III	135	⑦	0.40	55	1040	
		135	⑧	0.39	55	1240	59
		135	⑨	0.38	50	1550	61
	IV	110	⑩	0.33	36	830	
		110	⑪	0.33	36	980	53
		110	⑫	0.32	36	1200	55

\*rated data

Fan ordering information

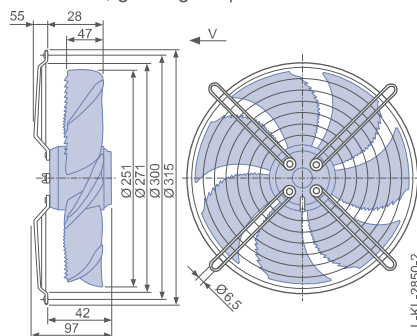
	Airflow direction A			Airflow direction V		
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
						
<b>Type Article no.</b>	<b>FN025-2EW.WA.A7 162556</b>	<b>FN025-2ED.WA.A7 161633</b>	<b>FN025-2EL.WA.A7 161634</b>	<b>FN025-2EK.WA.V7 161631</b>	<b>FN025-2EI.WA.V7 162557</b>	<b>FN025-2EH.WA.V7 161630</b>
Weight kg	2.70	2.50	3.50	2.70	2.50	3.40

Control technology

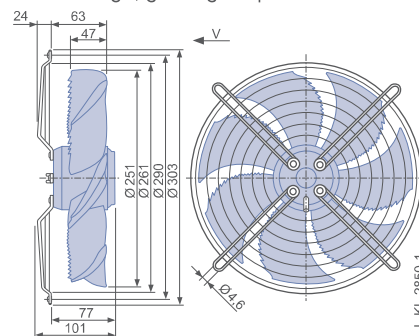
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Airflow direction V

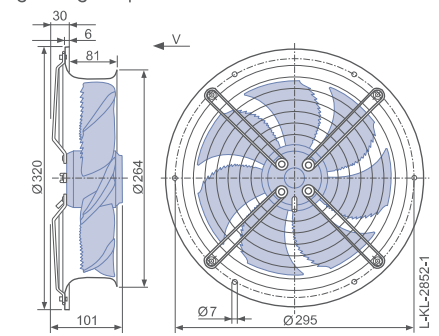
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side



# FE2owlet

for single phase alternating current, 4 pole

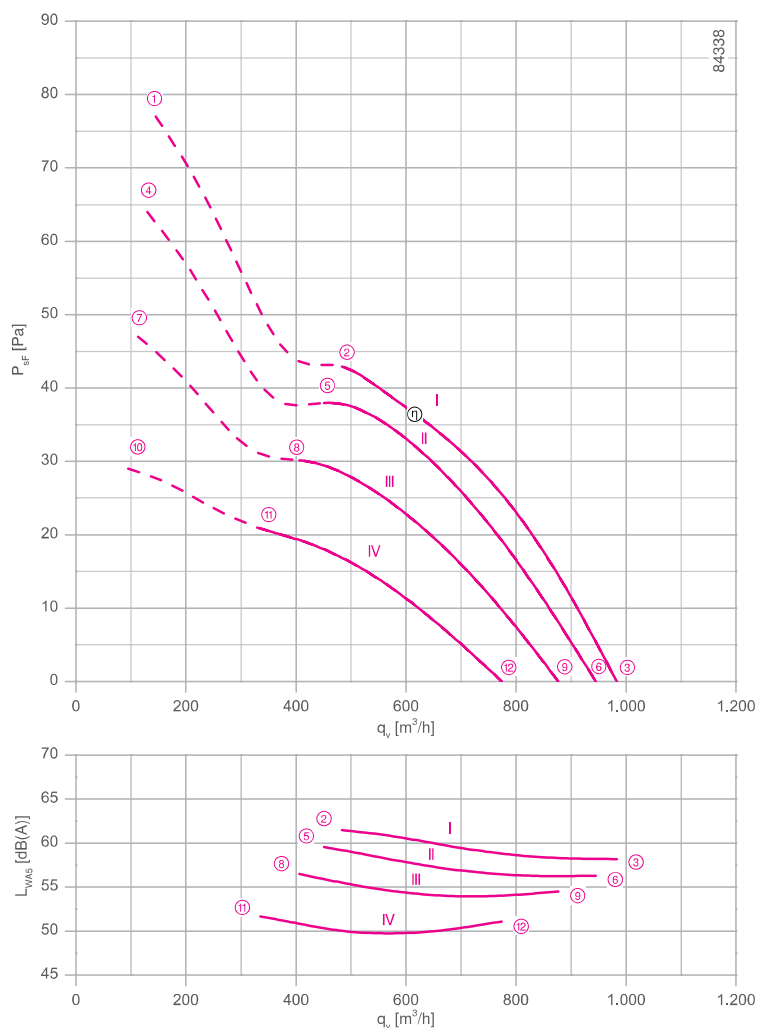
FN025-4E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 0.05 kW\*  
 Rated current  $I_N$ : 0.24 A\*  
 Rated speed  $n_N$ : 1370 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 0.40 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 1.5  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 55 °C  
 Electrical connection: Supply cable variable 45 cm  
 Number of blades: 7  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, ultramarine blue  
 Conformity: CE  
**ErP-data**  
 Not subject to the regulations of ErP directive ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

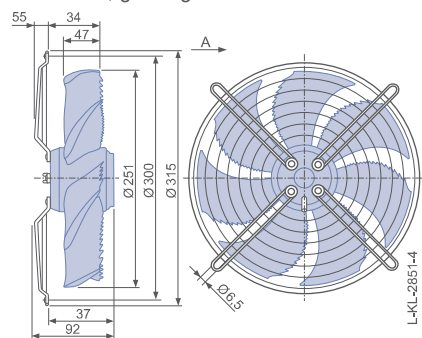
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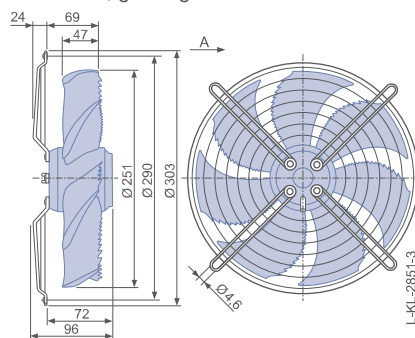
## Dimensions mm

Airflow direction A

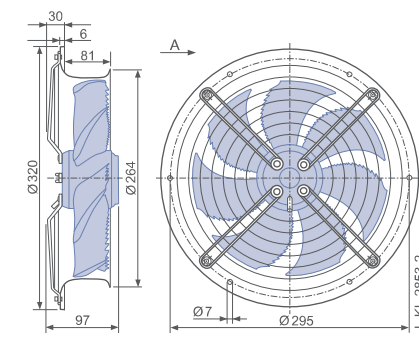
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design L - round full bell mouth, guard grille suction side






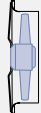


Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P <sub>1</sub> W	n min <sup>-1</sup>	L <sub>WA5</sub> dB(A)
FN025-4E_W8_7	I	230	①	0.24	50	1330	
		230*	②	0.24*	48*	1370*	62
		230	③	0.23	46	1400	58
	II	170	④	0.19	32	1210	
		170	⑤	0.17	28	1280	60
		170	⑥	0.16	26	1340	56
	III	135	⑦	0.18	24	1030	
		135	⑧	0.16	22	1150	57
		135	⑨	0.14	19	1250	55
	IV	110	⑩	0.17	18	820	
		110	⑪	0.16	17	960	52
		110	⑫	0.14	15	1110	51

\*rated data

Fan ordering information

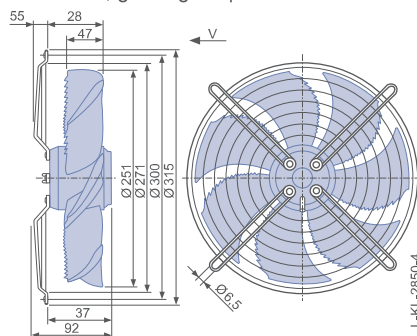
Airflow direction A			Airflow direction V			
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
						
<b>Type Article no.</b>	<b>FN025-4EW.W8.A7 139726</b>	<b>FN025-4ED.W8.A7 139712</b>	<b>FN025-4EL.W8.A7 139719</b>	<b>FN025-4EK.W8.V7 139754</b>	<b>FN025-4EI.W8.V7 139740</b>	<b>FN025-4EH.W8.V7 139747</b>
Weight kg	2.50	2.30	3.30	2.50	2.30	3.30

Control technology

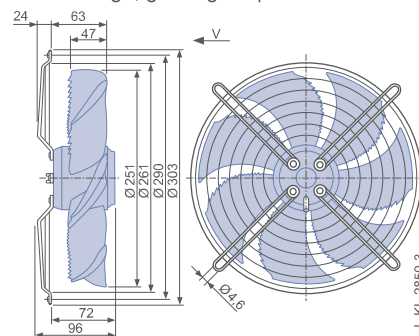
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Airflow direction V

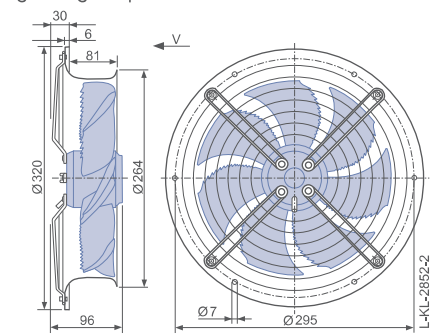
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side










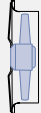


Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P <sub>1</sub> W	n min <sup>-1</sup>	L <sub>WA5</sub> dB(A)
FN030-4E_WA_7	I	230	①	0.44	95	1220	
		230*	②	0.39*	85*	1290*	64
		230	③	0.34	75	1370	63
	II	170	④	0.39	65	890	
		170	⑤	0.36	60	1050	60
		170	⑥	0.30	50	1240	60
	III	145	⑦	0.34	48	710	
		145	⑧	0.33	46	870	59
		145	⑨	0.30	42	1100	58
	IV	110	⑩	0.27	28	490	
		110	⑪	0.26	28	570	54
		110	⑫	0.26	26	740	55

\*rated data

Fan ordering information

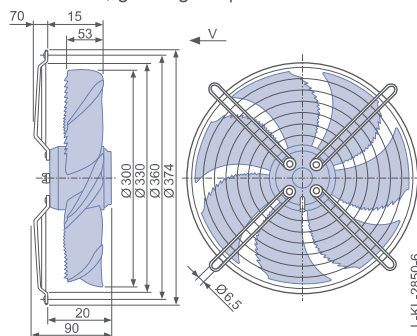
Airflow direction A			Airflow direction V			
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
						
<b>Type Article no.</b>	<b>FN030-4EW.WA.A7 141658</b>	<b>FN030-4ED.WA.A7 141656</b>	<b>FN030-4EL.WA.A7 141657</b>	<b>FN030-4EK.WA.V7 141661</b>	<b>FN030-4EI.WA.V7 141659</b>	<b>FN030-4EH.WA.V7 141660</b>
Weight kg	3.10	3.60	4.50	3.30	2.90	4.50

Control technology

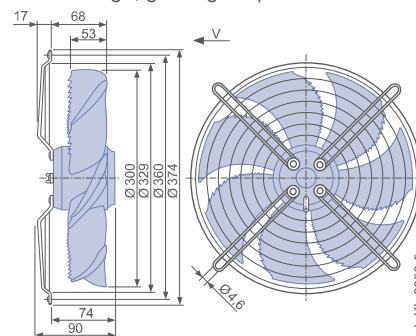
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Airflow direction V

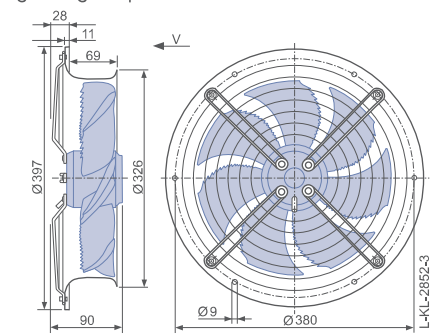
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side








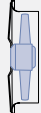


Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P <sub>1</sub> W	n min <sup>-1</sup>	L <sub>WA5</sub> dB(A)
FN030-4E_WC_7	I	230	①	0.46	110	1280	
		230*	②	0.42*	95*	1330*	64
		230	③	0.35	80	1400	62
	II	170	④	0.46	75	970	
		170	⑤	0.40	70	1140	61
		170	⑥	0.33	55	1300	60
	III	135	⑦	0.39	50	680	
		135	⑧	0.38	50	830	55
		135	⑨	0.33	44	1100	57
	IV	110	⑩	0.33	36	520	
		110	⑪	0.33	34	600	47
		110	⑫	0.31	34	830	52

\*rated data

Fan ordering information

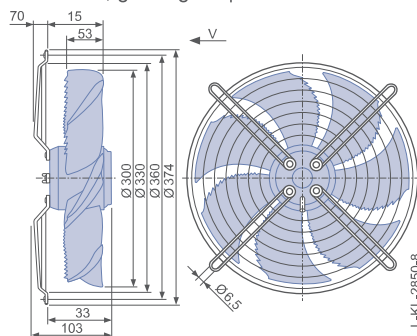
	Airflow direction A			Airflow direction V		
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
						
<b>Type Article no.</b>	<b>FN030-4EW.WC.A7 141633</b>	<b>FN030-4ED.WC.A7 141631</b>	<b>FN030-4EL.WC.A7 141632</b>	<b>FN030-4EK.WC.V7 141636</b>	<b>FN030-4EI.WC.V7 141634</b>	<b>FN030-4EH.WC.V7 141635</b>
Weight kg	3.70	3.60	5.10	3.80	3.60	5.10

Control technology

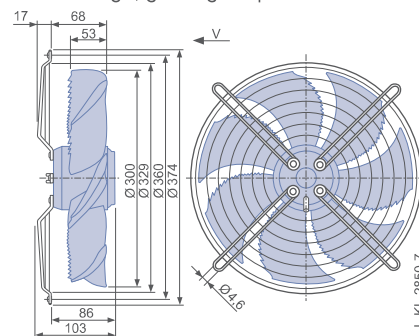
 Frequency inverters Control 1~ Page 474	 Motor protection units 1~ Page 518	 Electronic voltage controllers 1~ Page 492
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Airflow direction V

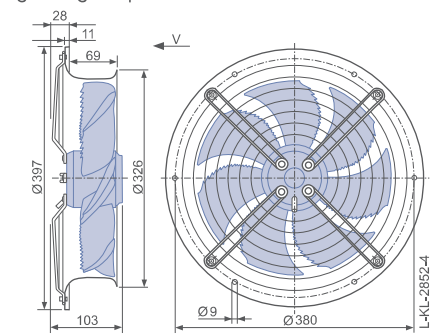
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side



# FE2owlet

for single phase alternating current, 4 pole

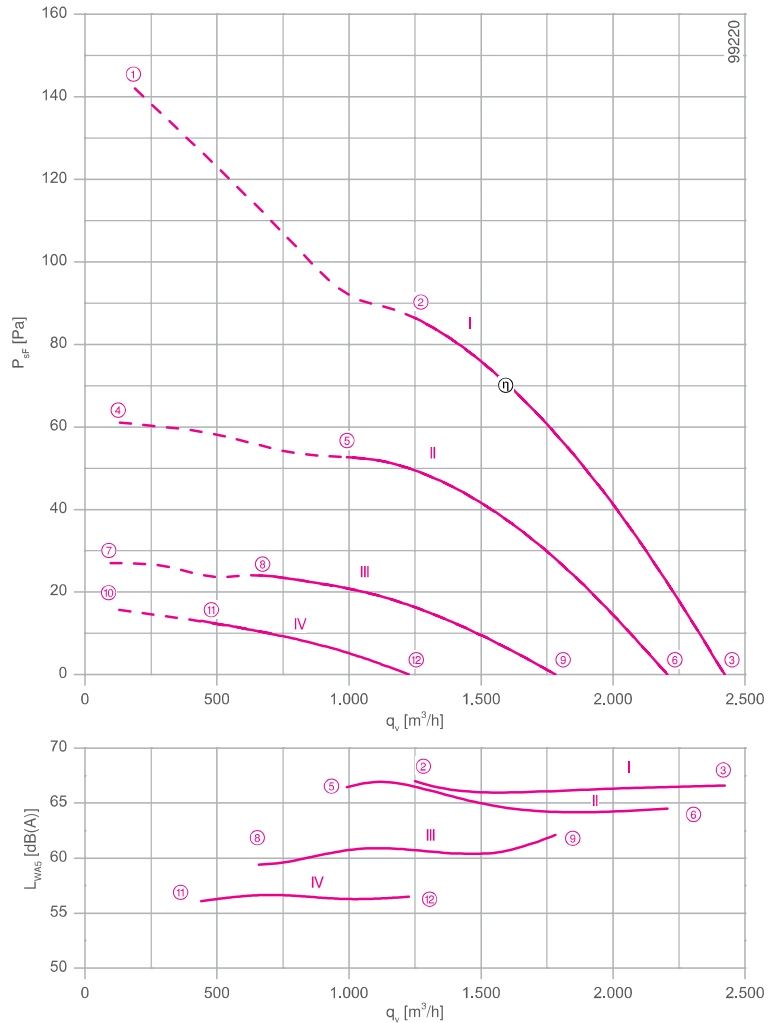
FNO31-4E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 0.12 kW\*  
 Rated current  $I_N$ : 0.54 A\*  
 Rated speed  $n_N$ : 1330 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 1.00 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 5.0  $\mu F$   
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Supply cable variable 45 cm  
 Number of blades: 7  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, ultramarine blue  
 Conformity: CE  
**ErP-data**  
 Not subject to the regulations of ErP directive ( $P_i < 125 W$ )  
 \* Rated data

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

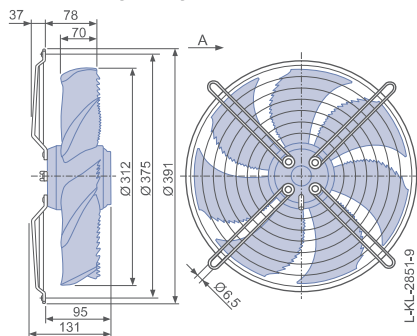
Connection diagram Page 532  
1360-177X

System components Page 430

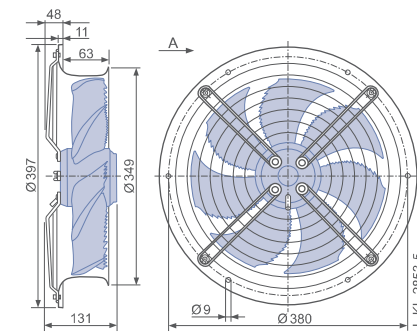
## Dimensions mm

Airflow direction A

Design D - axial bolted, suspension for full bell mouth, guard grille suction side

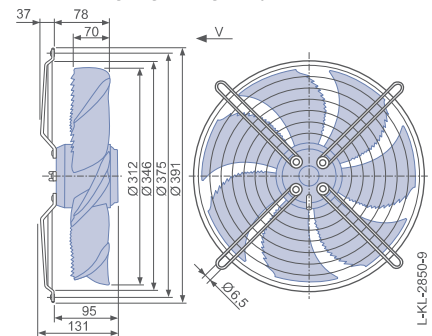


Design L - round full bell mouth, guard grille suction side



Airflow direction V

Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side







Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
		U V		I A	$P_1$ W	n min <sup>-1</sup>	
FN031-4E_WD_7	I	230	①	0.64	140	1250	
		230*	②	0.54*	120*	1330*	67
		230	③	0.44	100	1400	66
	II	170	④	0.62	100	860	
		170	⑤	0.56	95	1070	66
		170	⑥	0.44	75	1290	65
	III	135	⑦	0.52	70	580	
		135	⑧	0.50	70	720	59
		135	⑨	0.44	60	1050	62
	IV	110	⑩	0.42	46	450	
		110	⑪	0.42	46	520	56
		110	⑫	0.42	44	720	57

\*rated data

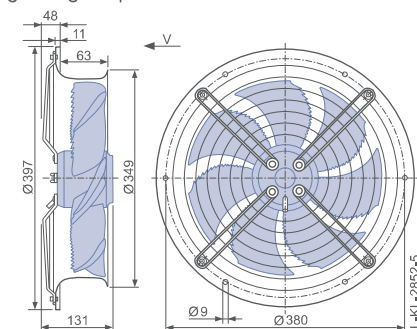
Fan ordering information

	Airflow direction A	Airflow direction V		
Design	D (guard grille suction side)	L (guard grille suction side)	I (guard grille pressure side)	H (guard grille pressure side)
				
Type	FN031-4ED.WD.A7	FN031-4EL.WD.A7	FN031-4EI.WD.V7	FN031-4EH.WD.V7
Article no.	161640	161641	161637	161638
Weight kg	4.30	5.80	4.30	5.80

Control technology

Frequency inverters Fcontrol 1~	Motor protection units 1~	Electronic voltage controllers 1~
		
Page 474	Page 518	Page 492

Design H - pipe sockets with a flange,  
guard grille pressure side



# FE2owlet

for single phase alternating current, 4 pole

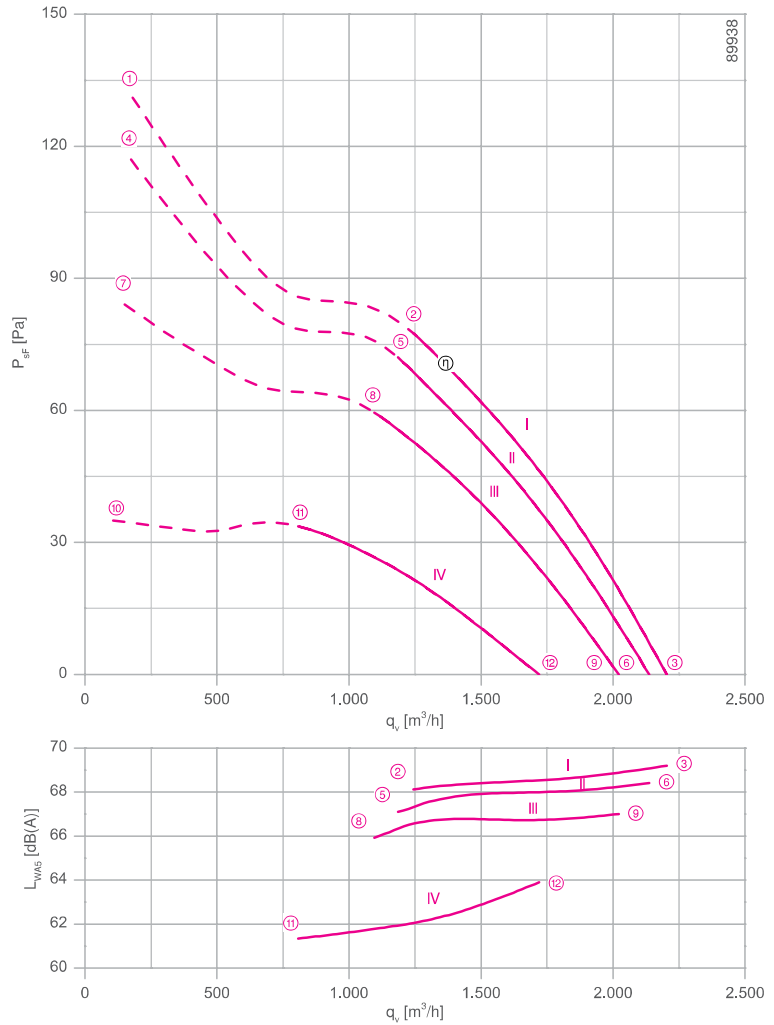
FNO31-4E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 120 W\*  
 Rated current  $I_N$ : 0.62 A\*  
 Rated speed  $n_N$ : 1440 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 2.40 A  
 Current increase  $\Delta I$ : 35 %  
 Service capacitor  $C_{400V}$ : 3.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: CE  
**ErP-data**  
 Not subject to the regulations of ErP directive ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

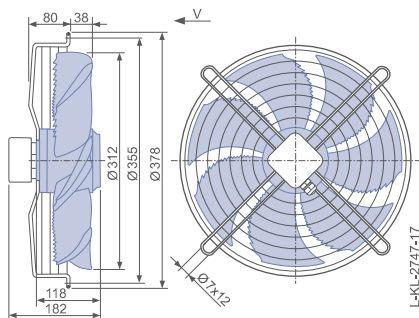
Connection diagram Page 531  
1360-104XA

System components Page 430

## Dimensions mm



Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



### Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
		U V		I A	$P_1$ W	n min <sup>-1</sup>	
FN031-4E_OF_7P2	I	230	①	0.66	130	1430	
		<b>230*</b>	②	<b>0.61*</b>	<b>120*</b>	<b>1440*</b>	68
		230	③	0.58	110	1450	69
	II	170	④	0.68	110	1350	
		170	⑤	0.58	95	1390	67
		170	⑥	0.50	80	1410	68
	III	135	⑦	0.86	110	1150	
		135	⑧	0.70	90	1270	66
		135	⑨	0.58	75	1340	67
	IV	110	⑩	0.92	90	740	
		110	⑪	0.84	85	950	61
		110	⑫	0.72	75	1140	64

\*rated data

### Fan ordering information

**Airflow direction V**

Design K (guard grille pressure side)



**Type** FN031-4EK.0F.V7P2  
**Article no.** 159478

Weight kg 4.90

### Control technology

<p>Frequency inverters Fcontrol 1~</p>  <p>Page 474</p>	<p>Motor protection units 1~</p>  <p>Page 518</p>	<p>Electronic voltage controllers 1~</p>  <p>Page 492</p>
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# FE2owlet

for three phase alternating current, 4 pole

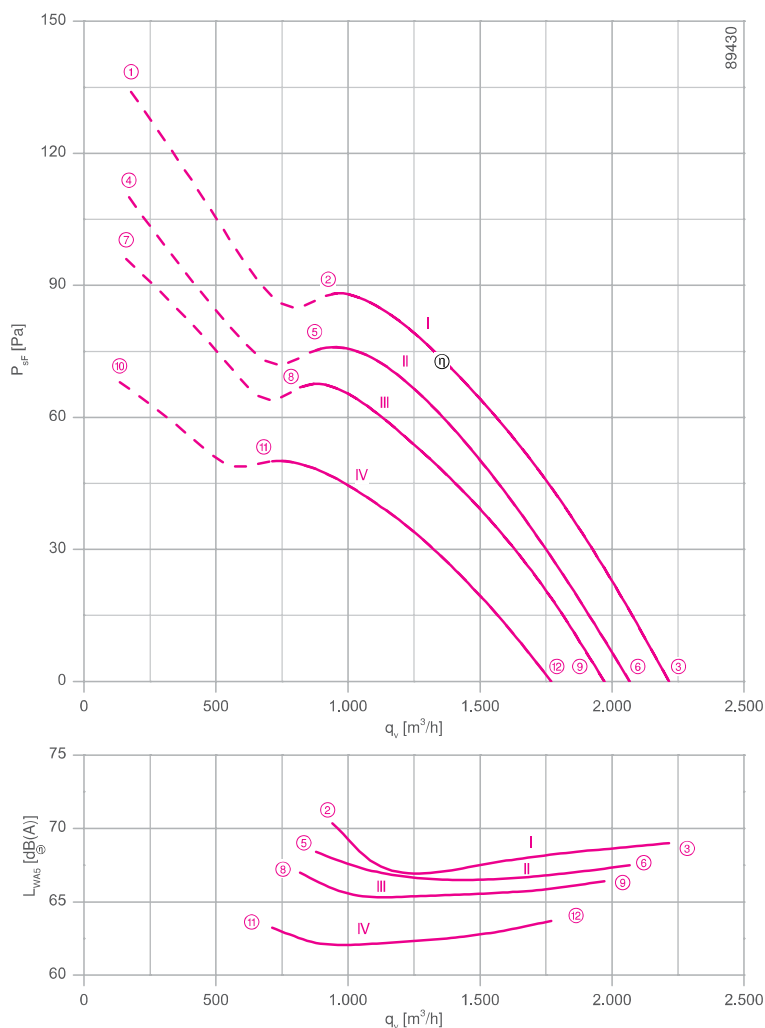
FNO31-4D



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3~ 230/400 V ( $\Delta/Y$ )  $\pm 10$  %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 120 W\*  
 Rated current  $I_N$ : 0.68/0.39 A\*  
 Rated speed  $n_N$ : 1450 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 2.80 / 1.70 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: CE  
**ErP-data**  
 Not subject to the regulations of ErP directive ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

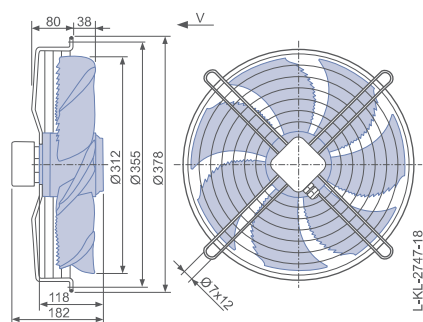
Connection diagram Page 531  
1360-106XA

System components Page 430

## Dimensions mm



Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



### Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WAS}$ dB(A)
		U V		I A	$P_1$ W	n min <sup>-1</sup>	
FN031-4D_0F_7P2	I	400	①	0.40	140	1440	
		<b>400*</b>	②	<b>0.39*</b>	<b>120*</b>	<b>1450*</b>	70
		400	③	0.39	110	1460	69
	II	230	④	0.30	100	1310	
		230	⑤	0.28	90	1340	69
		230	⑥	0.25	75	1380	68
	III	190	⑦	0.32	90	1220	
		190	⑧	0.29	80	1260	67
		190	⑨	0.25	70	1320	66
	IV	145	⑩	0.33	75	1030	
		145	⑪	0.30	70	1090	63
		145	⑫	0.27	60	1180	64

\*rated data

### Fan ordering information

**Airflow direction V**

Design K (guard grille pressure side)



**Type** FN031-4DK.0F.V7P2  
**Article no.** 159471

Weight kg 4.90

### Control technology

<p>Frequency inverters Fcontrol 3~</p>  <p>Page 480</p>	<p>Motor protection units 3~</p>  <p>Page 518</p>	<p>Electronic voltage controllers 3~</p>  <p>Page 506</p>
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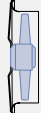


Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
		U V		I A	$P_1$ W	n min <sup>-1</sup>	
FN035-4E_WD_7	I	230	①	0.60	140	910	
		230*	②	0.56*	130*	1070*	60
		230	③	0.50	110	1220	65
	II	170	④	0.48	80	660	
		170	⑤	0.46	80	810	54
		170	⑥	0.44	70	1000	59
	III	135	⑦	0.39	55	510	
		135	⑧	0.38	50	620	47
		135	⑨	0.37	50	780	54
	IV	110	⑩	0.32	36	400	
		110	⑪	0.32	36	490	40
		110	⑫	0.32	34	610	47

\*rated data

Fan ordering information

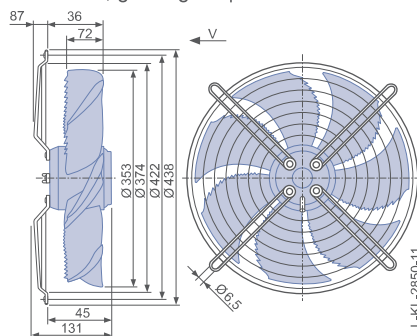
	Airflow direction A			Airflow direction V		
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
						
<b>Type Article no.</b>	<b>FN035-4EW.WD.A7 162549</b>	<b>FN035-4ED.WD.A7 162547</b>	<b>FN035-4EL.WD.A7 162548</b>	<b>FN035-4EK.WD.V7 162545</b>	<b>FN035-4EI.WD.V7 162543</b>	<b>FN035-4EH.WD.V7 162544</b>
Weight kg	4.90	4.50	6.50	4.90	4.50	6.50

Control technology

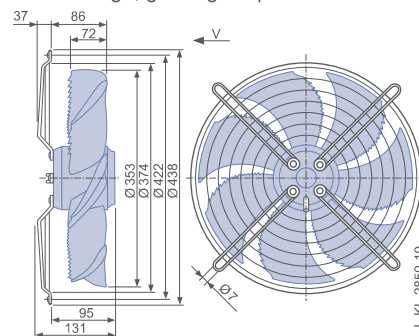
 Frequency inverters Control 1~ Page 474	 Motor protection units 1~ Page 518	 Electronic voltage controllers 1~ Page 492
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Airflow direction V

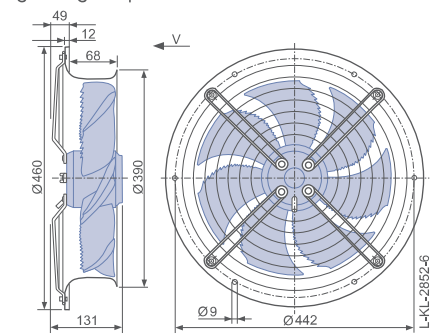
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side



# FE2owlet

for single phase alternating current, 4 pole

FN035-4E



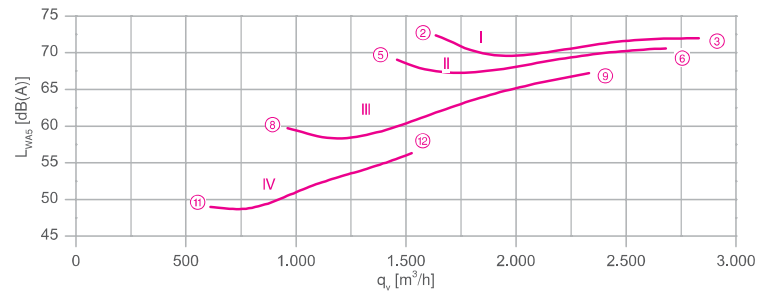
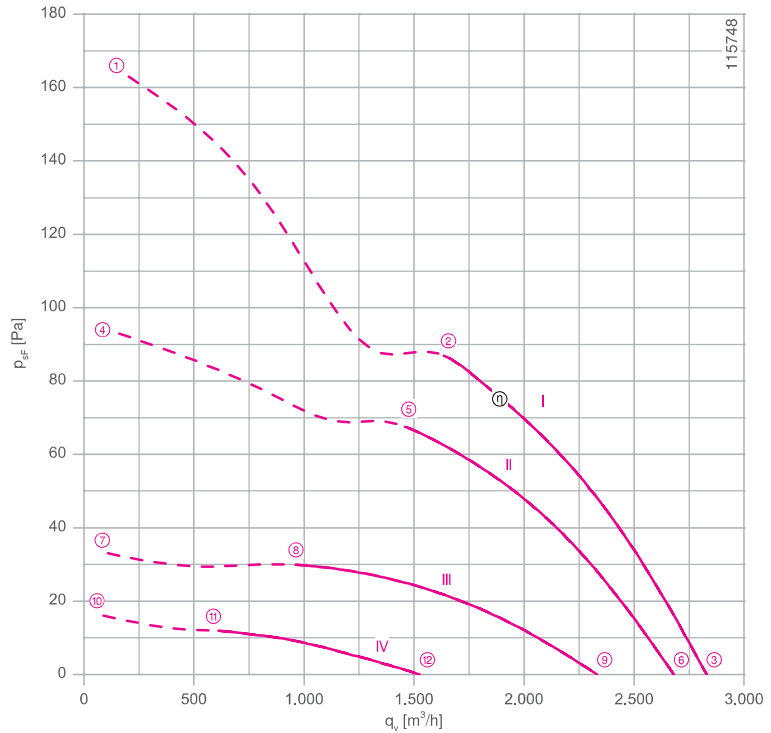
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V±10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 150 W\*  
 Rated current  $I_N$ : 0.65 A\*  
 Rated speed  $n_N$ : 1390 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 2.00 A  
 Current increase  $\Delta I$ : 35 %  
 Service capacitor  $C_{400V}$ : 3.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: ErP 2015, CE

## ErP-data

Efficiency  $\eta_{statA}$ : 29.2 %  
 Efficiency:  $N_{actual} = 40.9 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

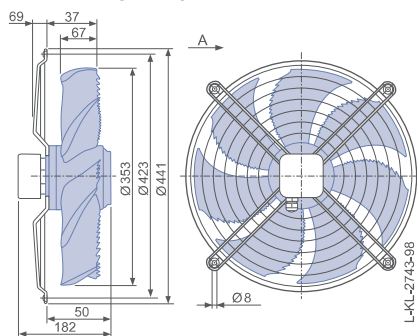
Connection diagram Page 531  
 for airflow direction A 1360-104XB  
 for airflow direction V 1360-104XA

System components Page 430

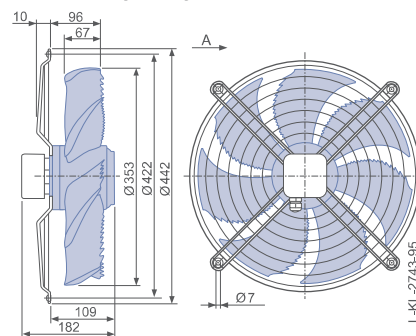
## Dimensions mm

### Airflow direction A

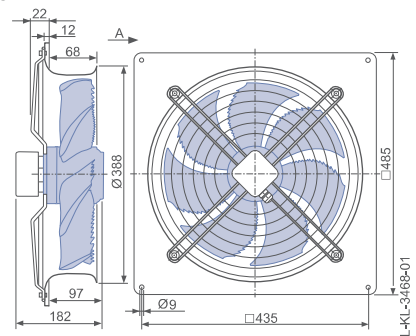
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design Q - square full bell mouth, guard grille suction side



Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
		U V		I A	$P_1$ W	n min <sup>-1</sup>	
FN035-4E_OF_7P3	I	230	①	0.82	180	1350	
		230*	②	0.66*	150*	1390*	72
		230	③	0.52	110	1430	72
	II	170	④	1.05	170	1030	
		170	⑤	0.80	130	1240	69
		170	⑥	0.56	95	1360	71
	III	135	⑦	0.96	120	610	
		135	⑧	0.90	120	820	60
		135	⑨	0.70	90	1180	67
	IV	110	⑩	0.80	80	430	
		110	⑪	0.80	80	520	49
		110	⑫	0.74	75	770	56

\*rated data

Fan ordering information

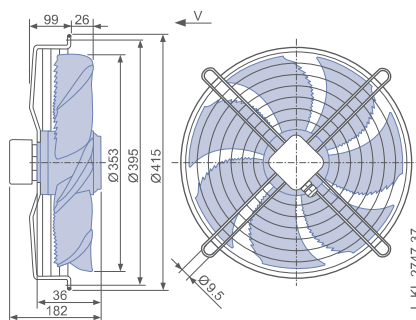
Airflow direction A			Airflow direction V		
Design	W (guard grille suction side)	D (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	Q (guard grille pressure side)
<b>Type Article no.</b>	<b>FN035-4EW.0F.A7P3 171264</b>	<b>FN035-4ED.0F.A7P3 171263</b>	<b>FN035-4EQ.0F.A7P3 171265</b>	<b>FN035-4EK.0F.V7P3 171261</b>	<b>FN035-4EQ.0F.V7P3 171262</b>
Weight kg	5.10	4.80	7.60	5.30	7.80

Control technology

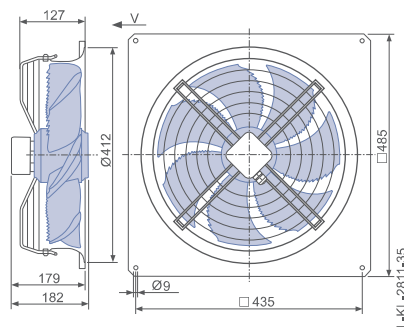
Frequency inverters Control 1~  Page 474	Motor protection units 1~  Page 518	Electronic voltage controllers 1~  Page 492
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Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design Q - square full bell mouth, guard grille pressure side



# FE2owlet

for single phase alternating current, 6 pole

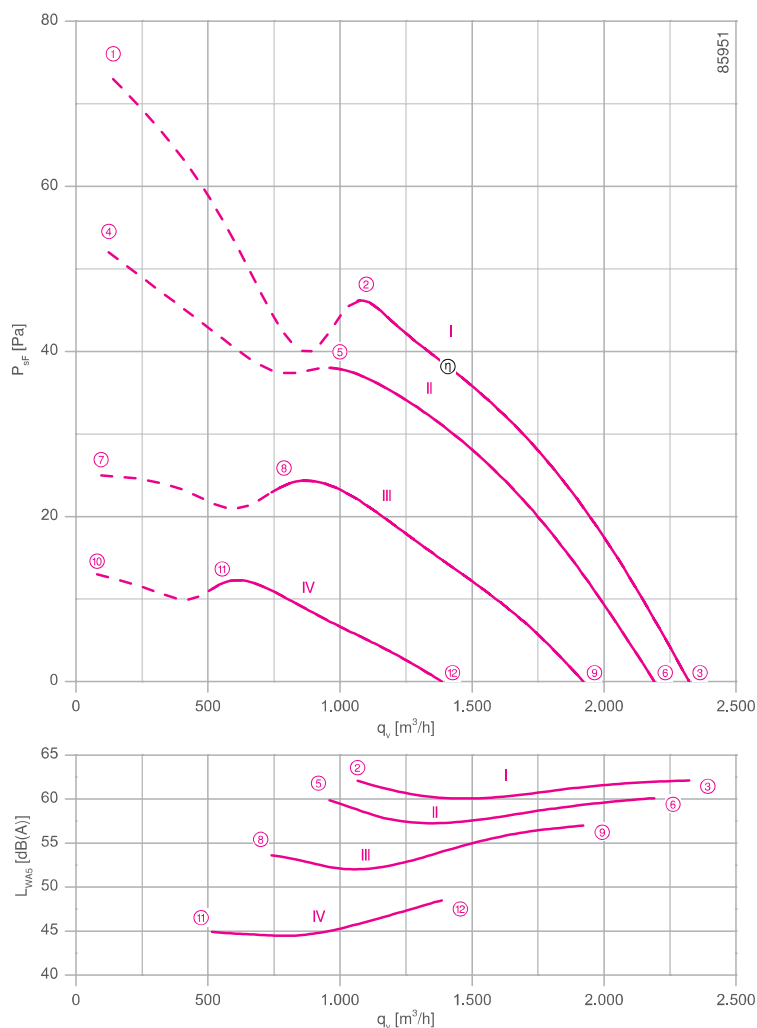
FN035-6E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 85 W\*  
 Rated current  $I_N$ : 0.39 A\*  
 Rated speed  $n_N$ : 930 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 0.75 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 3.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: CE  
**ErP-data**  
 Not subject to the regulations of ErP directive ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

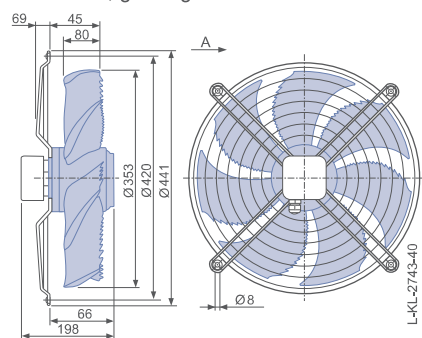
Connection diagram Page 531  
 for airflow direction A 1360-104XB  
 for airflow direction V 1360-104XA

System components Page 430

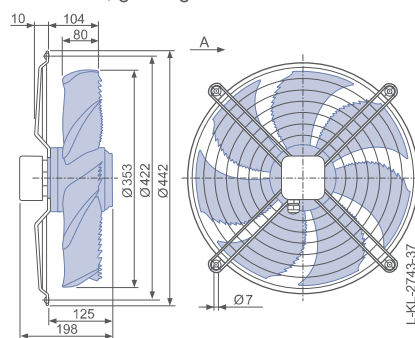
## Dimensions mm

### Airflow direction A

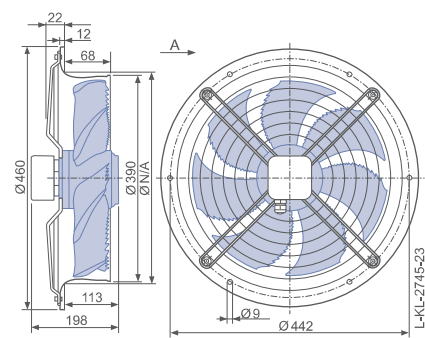
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design L - round full bell mouth, guard grille suction side






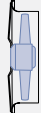


Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P <sub>1</sub> W	n min <sup>-1</sup>	L <sub>WA5</sub> dB(A)
FN035-6E_OC_7P2	I	230	①	0.42	95	900	
		230*	②	0.39*	85*	930*	62
		230	③	0.37	80	940	62
	II	170	④	0.42	70	760	
		170	⑤	0.36	60	850	60
		170	⑥	0.31	55	890	60
	III	135	⑦	0.38	50	530	
		135	⑧	0.36	48	670	54
		135	⑨	0.32	42	780	57
	IV	110	⑩	0.33	36	390	
		110	⑪	0.32	34	470	45
		110	⑫	0.31	34	570	49

\*rated data

Fan ordering information

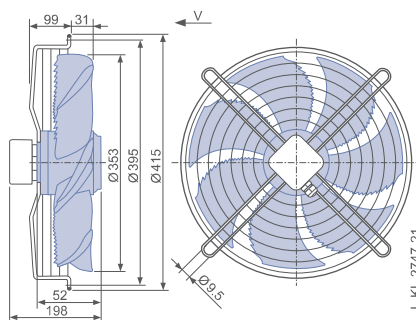
	Airflow direction A			Airflow direction V		
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
						
<b>Type Article no.</b>	<b>FN035-6EW.0C.A7P2 155897</b>	<b>FN035-6ED.0C.A7P2 155895</b>	<b>FN035-6EL.0C.A7P2 155896</b>	<b>FN035-6EK.0C.V7P2 155901</b>	<b>FN035-6EI.0C.V7P2 155899</b>	<b>FN035-6EH.0C.V7P2 155900</b>
Weight kg	4.50	4.10	6.10	4.60	4.10	6.10

Control technology

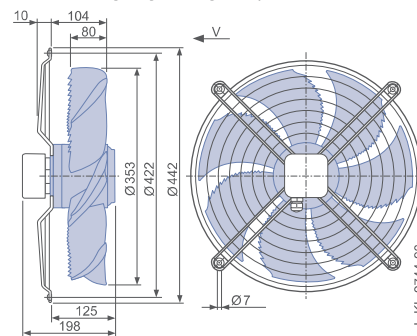
 Page 474	 Page 518	 Page 492
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Airflow direction V

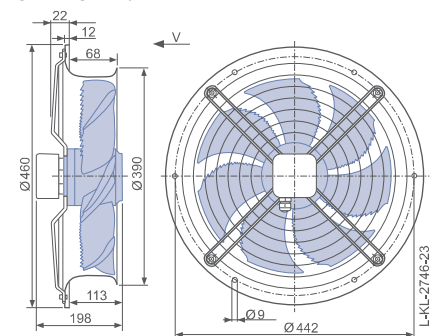
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side





# FE2owlet

for three phase alternating current, 4-4 pole

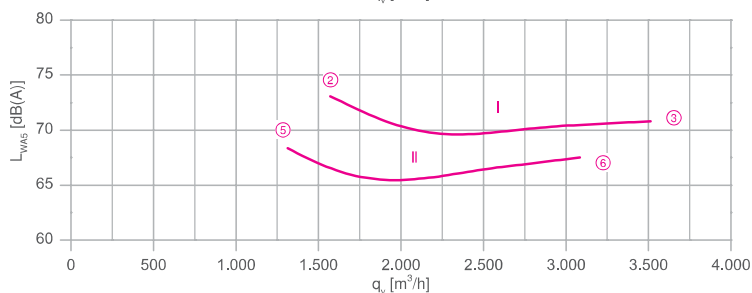
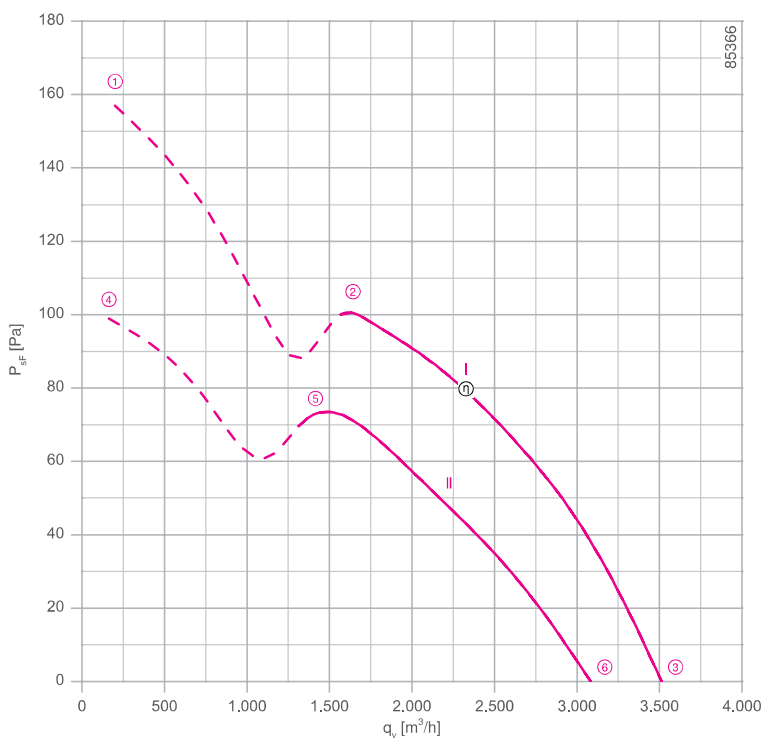
FN035-VD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3- 400 V ( $\Delta/Y$ )  $\pm 10$  %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 190/140 W\*  
 Rated current  $I_N$ : 0.40/0.23 A\*  
 Rated speed  $n_N$ : 1390/1170  $\text{min}^{-1}$ \*  
 Starting current  $I_s$ : 1.60 / 0.55 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(\text{min})}$ : -40 °C  
 Max. permitted ambient temperature  $t_{R(\text{max})}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{\text{statA}}$ : 29.3 %  
 Efficiency:  $N_{\text{actual}} = 40.3 / N_{\text{target}} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

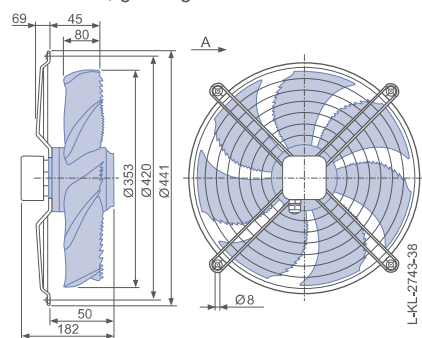
Connection diagram Page 531  
 for airflow direction A 1360-108XB  
 for airflow direction V 1360-108XA

System components Page 430

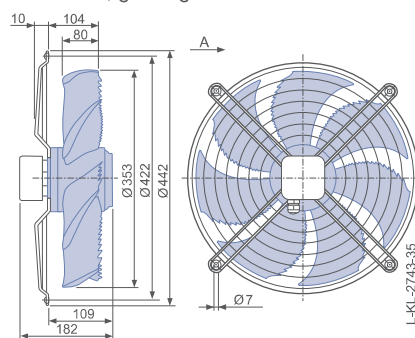
## Dimensions mm

### Airflow direction A

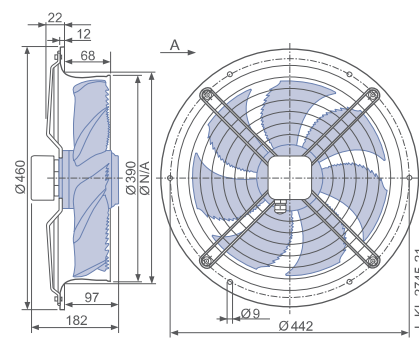
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design L - round full bell mouth, guard grille suction side









Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
			U V					
FN035-VD_OF_7P2	Δ	I	400	①	0.44	230	1360	
			400*	②	0.40*	190*	1390*	73
			400	③	0.37	150	1420	71
	Y	II	400	④	0.27	170	1080	
			400*	⑤	0.23*	140*	1170*	68
			400	⑥	0.19	120	1240	68

\*rated data

Fan ordering information

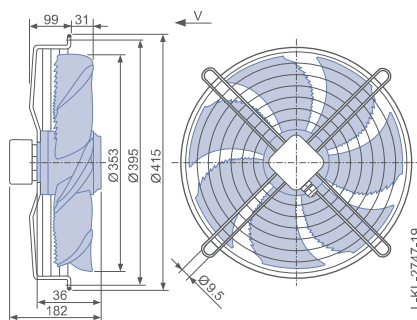
	Airflow direction A			Airflow direction V		
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
						
<b>Type</b>	FN035-VDW.0F.A7P2	FN035-VDD.0F.A7P2	FN035-VDL.0F.A7P2	FN035-VDK.0F.V7P2	FN035-VDI.0F.V7P2	FN035-VDH.0F.V7P2
<b>Article no.</b>	155888	155886	155887	155892	155890	155891
<b>Weight kg</b>	5.10	4.80	6.80	5.30	4.70	6.80

Control technology

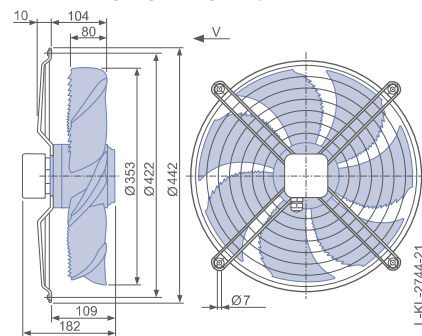
Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		
Page 480	Page 518	Page 506

Airflow direction V

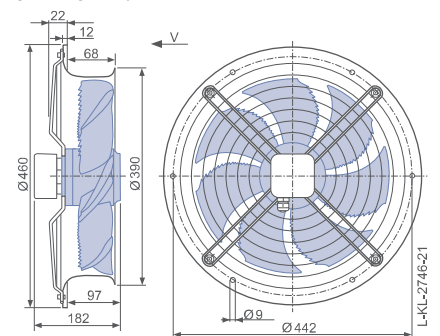
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side



# FE2owlet

for single phase alternating current, 4 pole

FNO40-4E



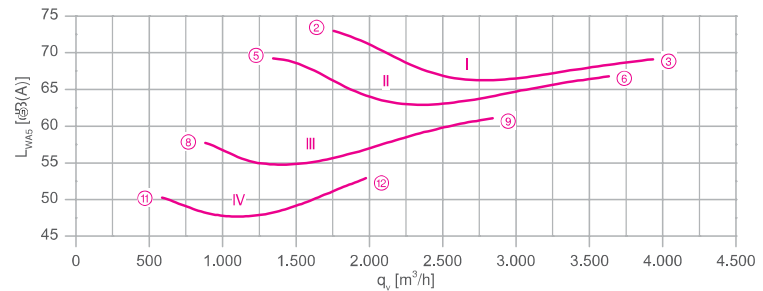
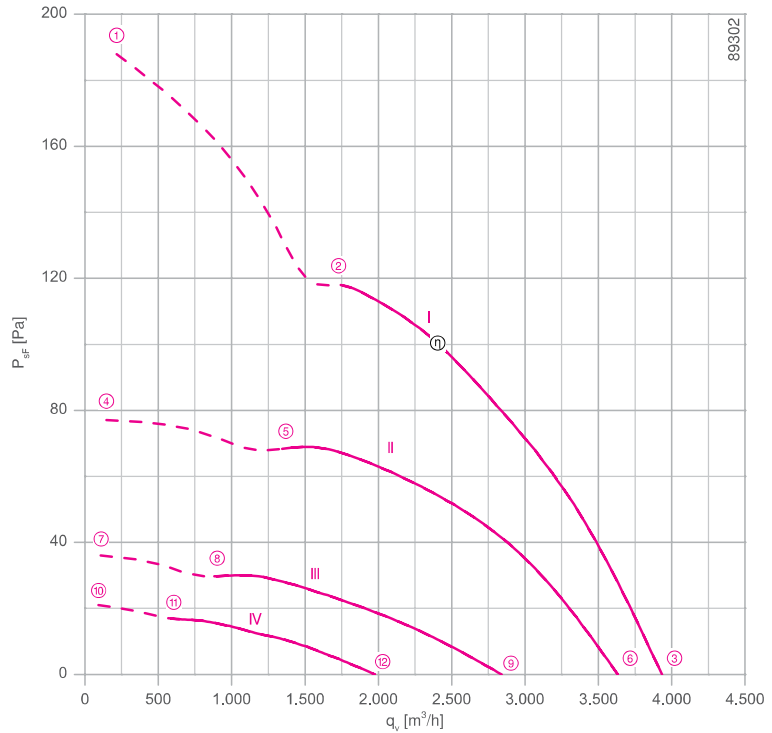
## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V±10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 240 W\*  
 Rated current  $I_N$ : 1.05 A\*  
 Rated speed  $n_N$ : 1340 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 2.40 A  
 Current increase  $\Delta I$ : 15 %  
 Service capacitor  $C_{400V}$ : 5.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 65 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: ErP 2015, CE

## ErP-data

Efficiency  $\eta_{statA}$ : 31.1 %  
 Efficiency:  $N_{actual} = 41.3 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

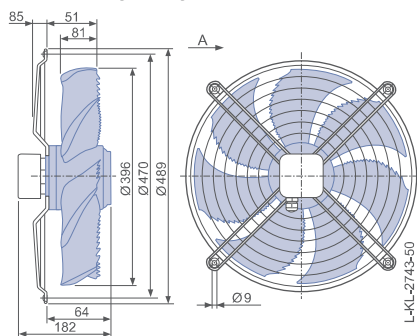
Connection diagram Page 531  
 for airflow direction A 1360-104XB  
 for airflow direction V 1360-104XA

System components Page 430

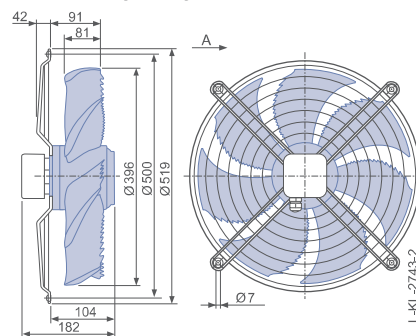
## Dimensions mm

### Airflow direction A

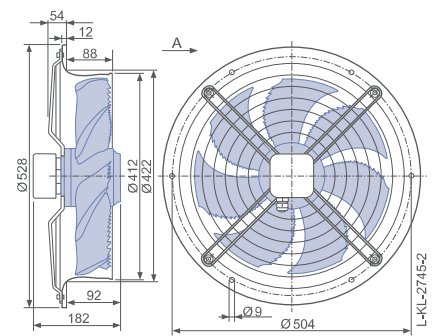
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design L - round full bell mouth, guard grille suction side





# FE2owlet

for single phase alternating current, 4 pole

FNO40-4E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Input power  $P_i$ : 260 W\*  
 Rated current  $I_N$ : 1.15 A\*  
 Rated speed  $n_N$ : 1320 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 2.40 A  
 Current increase  $\Delta I$ : 10 %  
 Service capacitor  $C_{400V}$ : 5.0  $\mu$ F  
 Thermal class: **THCL155**\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 55 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: ErP 2015, CE

## ErP-data

Efficiency  $\eta_{statA}$ : 30.0 %  
 Efficiency:  $N_{actual} = 40.1 / N_{target} = 40$ \*\*

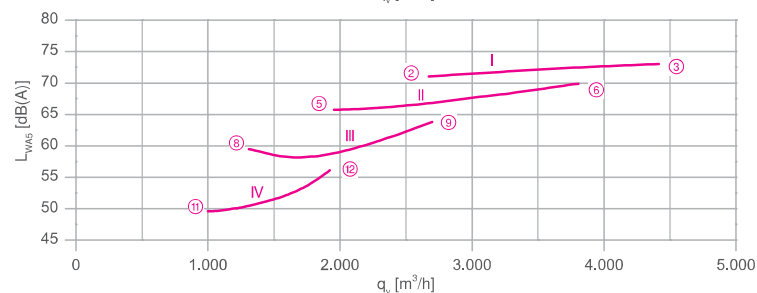
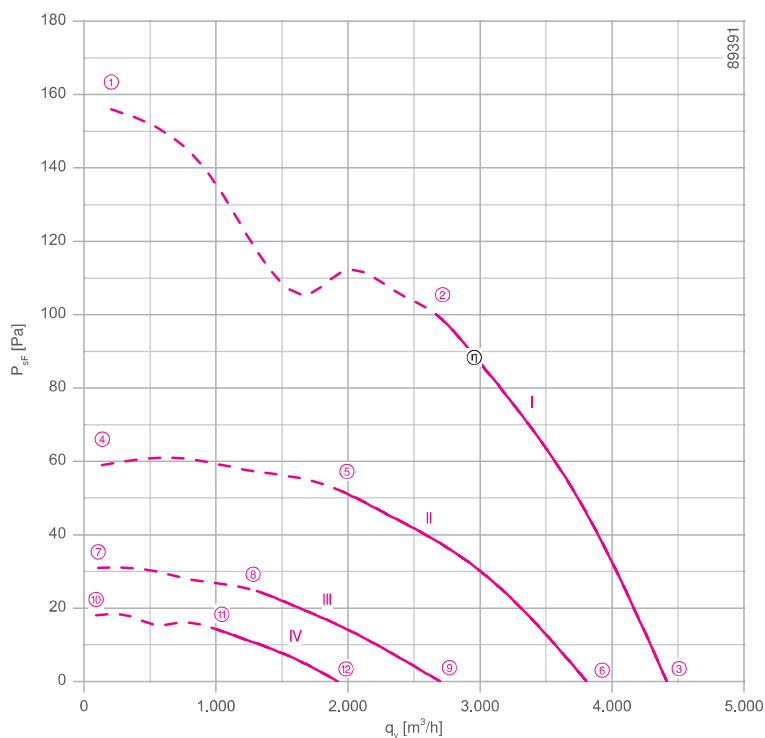
\* Rated data

\*\*ErP 2015

Connection diagram Page 531  
 for airflow direction A 1360-104XB  
 for airflow direction V 1360-104XA

System components Page 430

## Characteristic curve

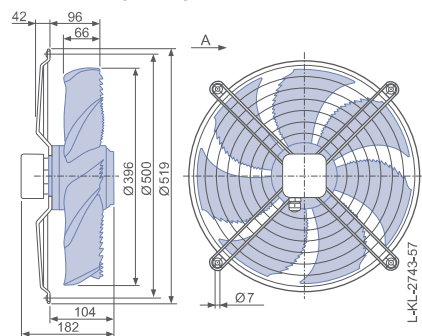


Measured in full bell mouth without guard grille in installation type A according to ISO 5801

## Dimensions mm

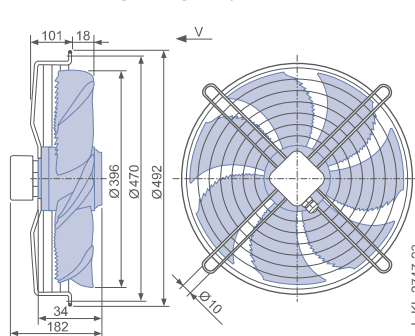
Airflow direction A

Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side




Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WAS}$ dB(A)
		U V		I A	$P_1$ W	n min <sup>-1</sup>	
FN040-4E_OF_7P2	I	230	①	1.45	330	1190	
		<b>230*</b>	②	<b>1.15*</b>	<b>260*</b>	<b>1320*</b>	71
		230	③	0.92	210	1380	73
	II	170	④	1.35	220	730	
		170	⑤	1.25	210	960	66
		170	⑥	1.05	180	1200	70
	III	135	⑦	1.10	150	540	
		135	⑧	1.10	140	660	59
		135	⑨	1.05	140	850	64
	IV	110	⑩	0.92	95	420	
		110	⑪	0.92	95	500	50
		110	⑫	0.90	95	610	56

\*rated data

Fan ordering information

Airflow direction A




Design D (guard grille suction side)

Type **FN040-4ED.0F.A7P2**  
Article no. **156231**

Weight kg 5.10

Airflow direction V



Design K (guard grille pressure side)

Type **FN040-4EK.0F.V7P2**  
Article no. **156236**

Weight kg 5.70

Control technology

Frequency inverters  
Control 1~



Page 474

Motor protection units  
1~



Page 518

Electronic voltage  
controllers 1~



Page 492

# FE2owlet

for single phase alternating current, 6 pole

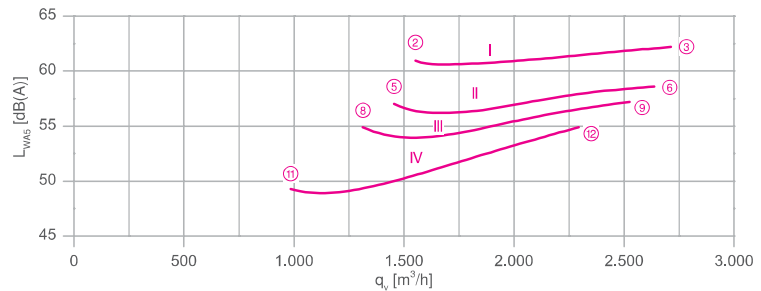
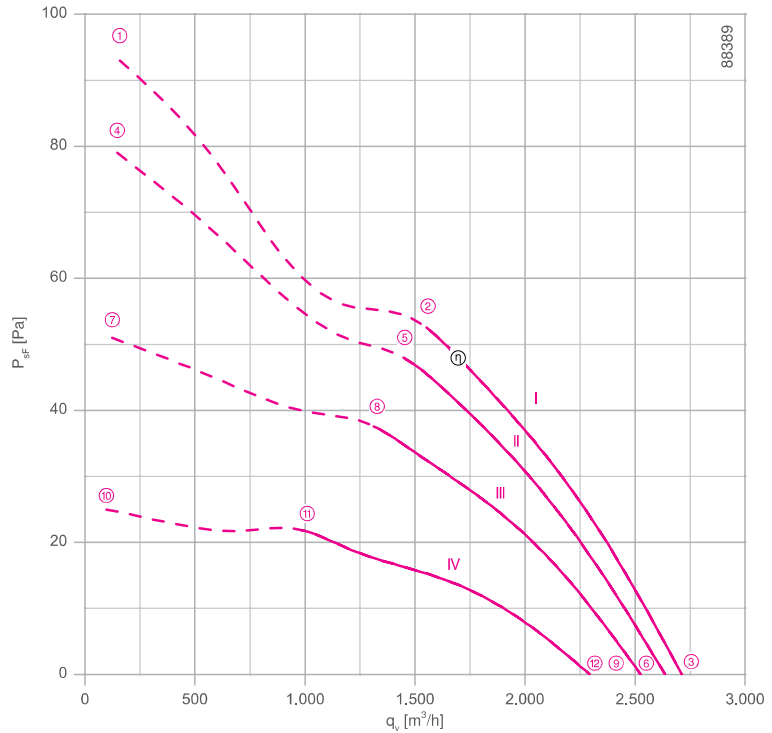
FNO40-6E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1 ~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 130 W\*  
 Rated current  $I_N$ : 0.60 A\*  
 Rated speed  $n_N$ : 950 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 1.20 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 5.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: CE  
**ErP-data**  
 Not subject to the regulations of ErP directive ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

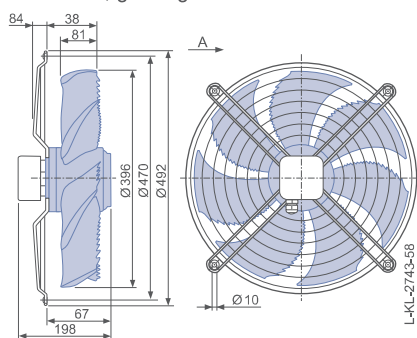
Connection diagram Page 531  
 for airflow direction A 1360-104XB  
 for airflow direction V 1360-104XA

System components Page 430

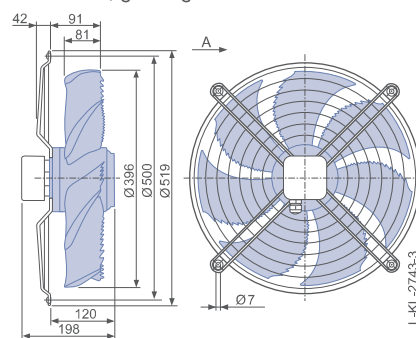
## Dimensions mm

### Airflow direction A

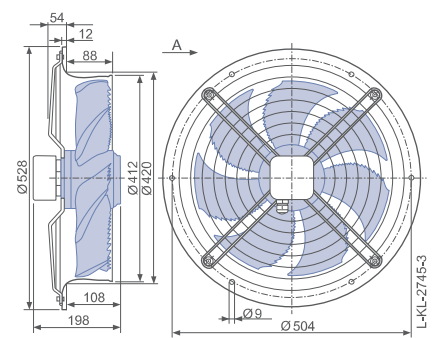
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design L - round full bell mouth, guard grille suction side






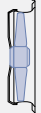


Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P <sub>1</sub> W	n min <sup>-1</sup>	L <sub>WA5</sub> dB(A)
FN040-6E_OF_7P1	I	230	①	0.64	140	930	
		230*	②	0.60*	130*	950*	61
		230	③	0.56	120	970	62
	II	170	④	0.56	95	860	
		170	⑤	0.50	85	900	57
		170	⑥	0.42	70	940	59
	III	135	⑦	0.58	75	690	
		135	⑧	0.50	70	800	55
		135	⑨	0.40	55	900	57
	IV	110	⑩	0.52	55	490	
		110	⑪	0.50	55	610	49
		110	⑫	0.42	46	820	55

\*rated data

Fan ordering information

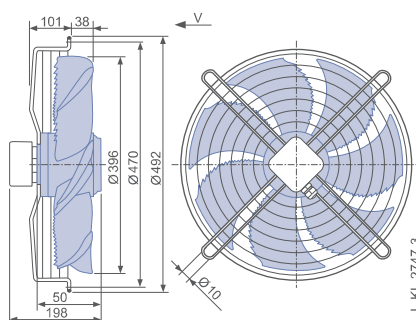
Design	Airflow direction A			Airflow direction V		
	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	H (guard grille pressure side)	Q (guard grille pressure side)
						
<b>Type Article no.</b>	<b>FN040-6EW.OF.A7P1 155290</b>	<b>FN040-6ED.OF.A7P1 152910</b>	<b>FN040-6EL.OF.A7P1 152911</b>	<b>FN040-6EK.OF.V7P1 152915</b>	<b>FN040-6EH.OF.V7P1 152914</b>	<b>FN040-6EQ.OF.V7P1 152916</b>
Weight kg	5.70	5.10	7.80	5.50	7.80	8.70

Control technology

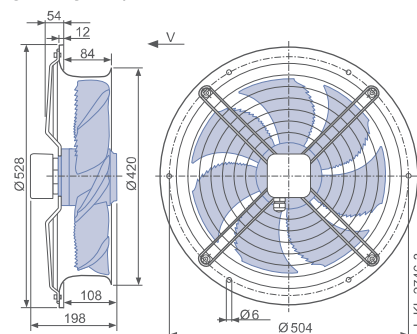
Frequency inverters Control 1~  Page 474	Motor protection units 1~  Page 518	Electronic voltage controllers 1~  Page 492
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Airflow direction V

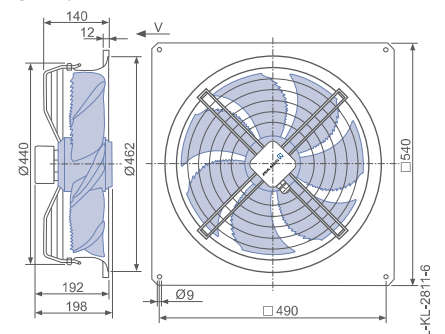
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side



Design Q - square full bell mouth, guard grille pressure side





# FE2owlet

for three phase alternating current, 4-4 pole

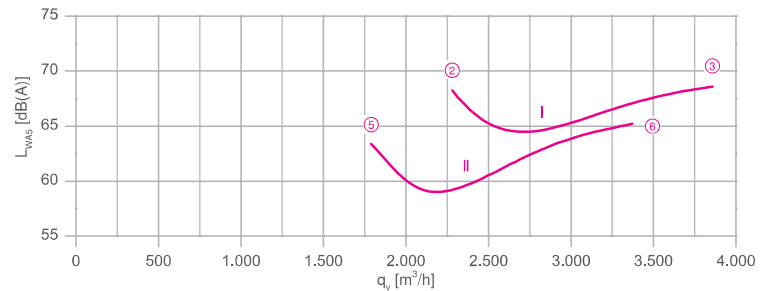
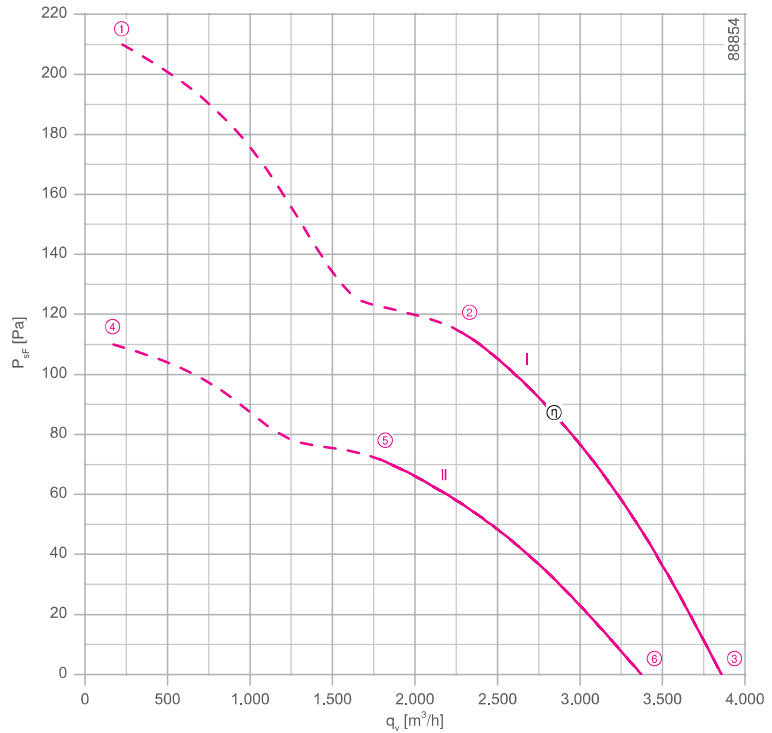
FNO40-VD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3- 400 V ( $\Delta/Y$ )  $\pm 10$  %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 230/170 W\*  
 Rated current  $I_N$ : 0.46/0.27 A\*  
 Rated speed  $n_N$ : 1360/1080  $\text{min}^{-1}$ \*  
 Starting current  $I_s$ : 1.60 / 0.55 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(\text{min})}$ : -40 °C  
 Max. permitted ambient temperature  $t_{R(\text{max})}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{\text{statA}}$ : 32.4 %  
 Efficiency:  $N_{\text{actual}} = 42.7 / N_{\text{target}} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

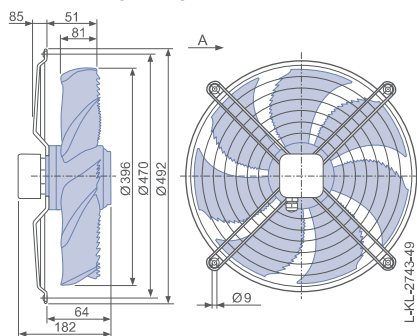
Connection diagram Page 531  
 for airflow direction A 1360-108XB  
 for airflow direction V 1360-108XA

System components Page 430

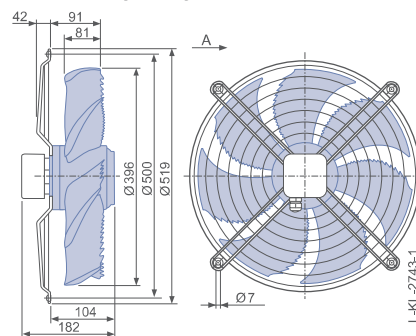
## Dimensions mm

### Airflow direction A

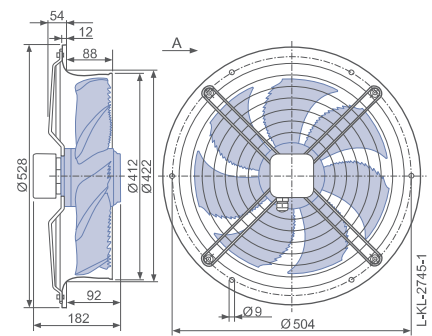
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design L - round full bell mouth, guard grille suction side









Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
			U V					
FN040-VD_OF_7P1	Δ	I	400	①	0.54	300	1310	
			400*	②	0.46*	230*	1360*	69
			400	③	0.40	170	1410	69
	Y	II	400	④	0.31	200	950	
			400*	⑤	0.27*	170*	1080*	64
			400	⑥	0.21	130	1230	65

\*rated data

Fan ordering information

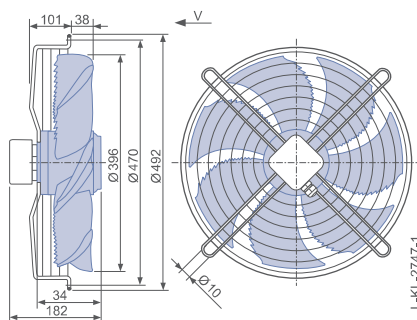
	Airflow direction A			Airflow direction V		
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
						
Type	FN040-VDW.0F.A7P1	FN040-VDD.0F.A7P1	FN040-VDL.0F.A7P1	FN040-VDK.0F.V7P1	FN040-VDI.0F.V7P1	FN040-VDH.0F.V7P1
Article no.	156642	152902	152903	152907	152905	152906
Weight kg	5.60	5.10	7.80	5.50	5.10	7.80

Control technology

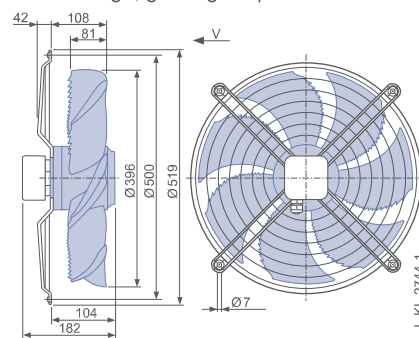
Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		
Page 480	Page 518	Page 506

Airflow direction V

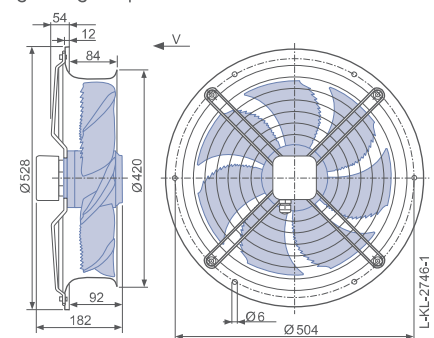
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side



# FE2owlet

for three phase alternating current, 4-4 pole

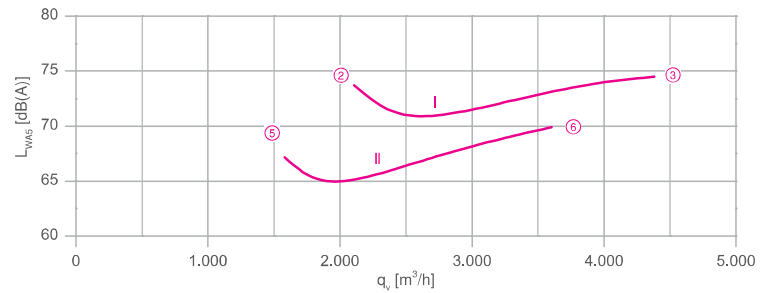
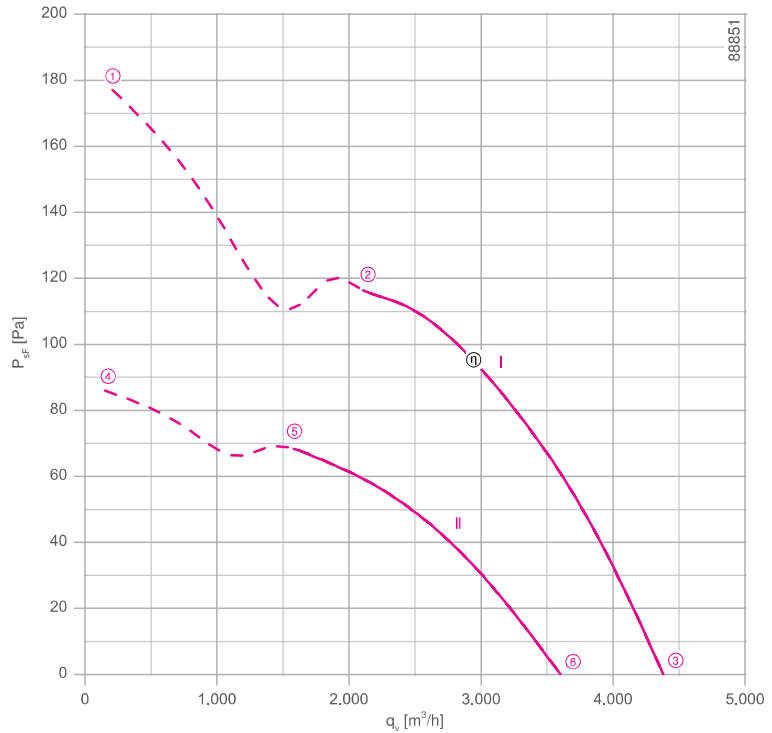
FNO40-VD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3- 400 V ( $\Delta/Y$ )  $\pm 10$  %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 260/180 W\*  
 Rated current  $I_N$ : 0.50/0.29 A\*  
 Rated speed  $n_N$ : 1340/1020 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 1.60 / 0.55 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 31.9 %  
 Efficiency:  $N_{actual} = 42.0 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

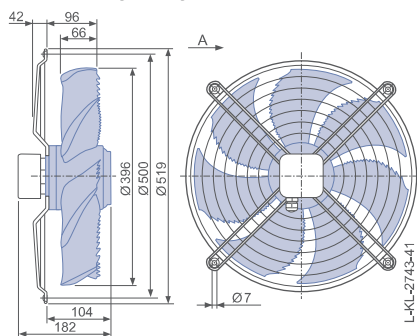
Connection diagram Page 531  
 for airflow direction A 1360-108XB  
 for airflow direction V 1360-108XA

System components Page 430

## Dimensions mm

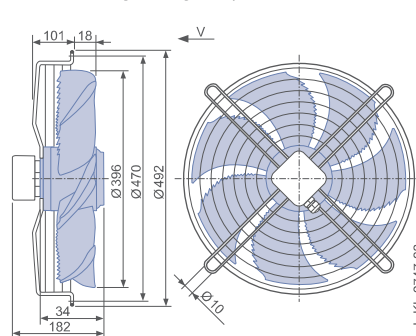
Airflow direction A

Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
			U V					
FN040-VD_0F_7P2	Δ	I	400	①	0.56	330	1290	
			400*	②	0.50*	260*	1340*	74
			400	③	0.44	200	1390	75
	Y	II	400	④	0.32	200	900	
			400*	⑤	0.29*	180*	1020*	67
			400	⑥	0.24	150	1150	70

\*rated data

Fan ordering information

Airflow direction A Airflow direction V

Design	D (guard grille suction side)	K (guard grille pressure side)
<b>Type</b>	<b>FN040-VDD.0F.A7P2</b>	<b>FN040-VDK.0F.V7P2</b>
<b>Article no.</b>	<b>156239</b>	<b>156244</b>
<b>Weight kg</b>	5.10	5.70

Control technology

Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
Page 480	Page 518	Page 506



# FE2owlet

for single phase alternating current, 4 pole

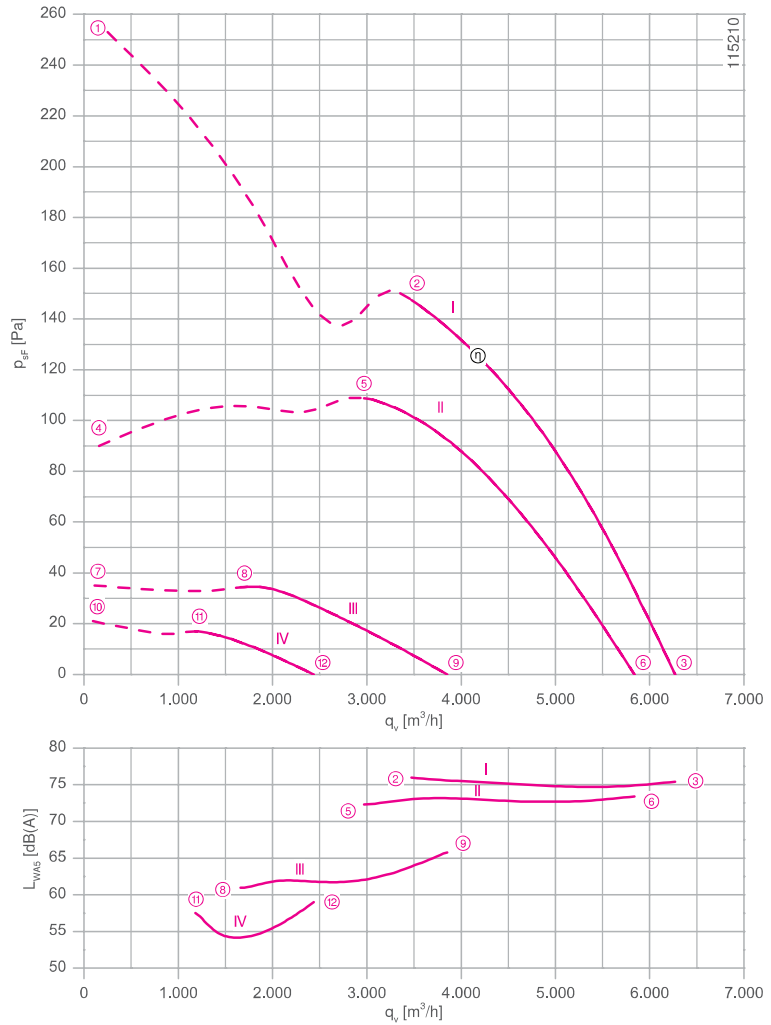
FNO42-4E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Input power  $P_i$ : 0,50 kW\*  
 Rated current  $I_N$ : 2,30 A\*  
 Rated speed  $n_N$ : 1400 min<sup>-1</sup>\*  
 Current increase  $\Delta I$ : 40 %  
 Service capacitor  $C_{400V}$ : 10,0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 65 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: Aluminium, 1 coat paint, jet black  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 31,8 %  
 Efficiency:  $N_{actual} = 40,2 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

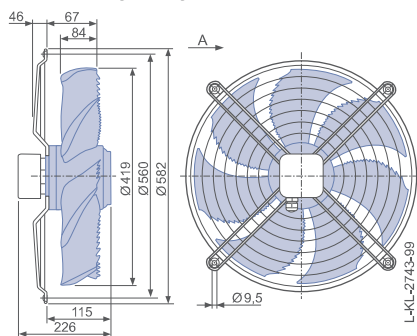
Connection diagram Page 531  
1360-104XB

System components Page 430

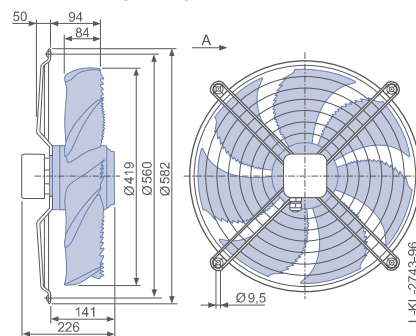
## Dimensions mm

### Airflow direction A

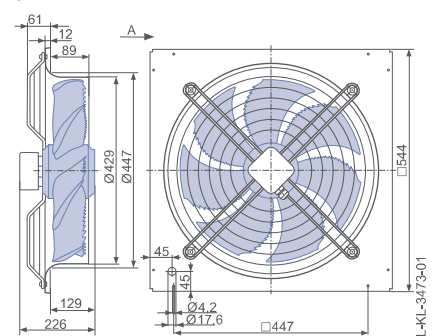
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design Q - square full bell mouth, guard grille suction side



### Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WAS}$ dB(A)
		U V		I A	$P_1$ W	n min <sup>-1</sup>	
FN042-4E_.4I_.7P2	I	230	①	3.10	640	1340	
		<b>230*</b>	②	<b>2.30*</b>	<b>500*</b>	<b>1400*</b>	76
		230	③	1.95	420	1420	75
	II	170	④	4.20	580	790	
		170	⑤	3.00	460	1200	73
		170	⑥	2.30	370	1320	73
	III	135	⑦	3.40	370	500	
		135	⑧	3.30	370	680	61
		135	⑨	3.10	350	890	66
	IV	110	⑩	2.80	250	380	
		110	⑪	2.80	240	480	58
		110	⑫	2.70	240	560	59

\*rated data

### Fan ordering information

Airflow direction A			
Design	W (guard grille suction side)	D (guard grille suction side)	Q (guard grille suction side)
			
<b>Type</b>	<b>FN042-4EW.4I.A7P2 171258</b>	<b>FN042-4ED.4I.A7P2 171257</b>	<b>FN042-4EQ.4I.A7P2 171259</b>
Weight kg	11.90	12.10	15.60

### Control technology

Frequency inverters Fcontrol 1~  Page 474	Motor protection units 1~  Page 518	Electronic voltage controllers 1~  Page 492
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# FE2owlet

for single phase alternating current, 6 pole

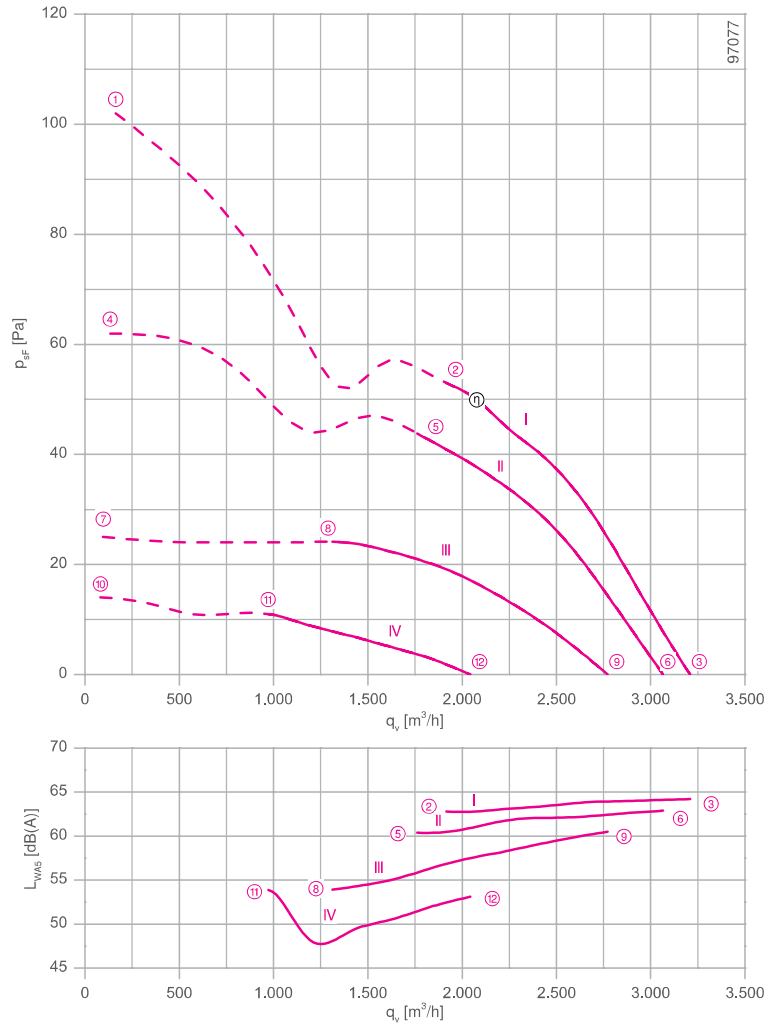
FNO42-6E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 120 W\*  
 Rated current  $I_N$ : 0.56 A\*  
 Rated speed  $n_N$ : 930 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 1.20 A  
 Current increase  $\Delta I$ : 0 %  
 Service capacitor  $C_{400V}$ : 4.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: CE  
**ErP-data**  
 Not subject to the regulations of ErP directive ( $P_i < 125$  W)  
 \* Rated data

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

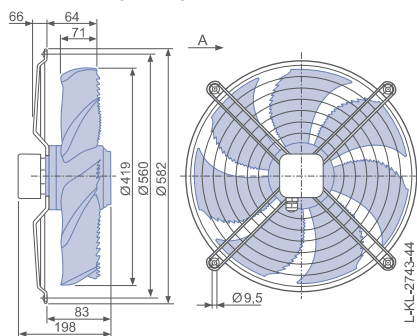
Connection diagram Page  
 for airflow direction A 1360-104XB  
 for airflow direction V 1360-104XA

System components Page 430

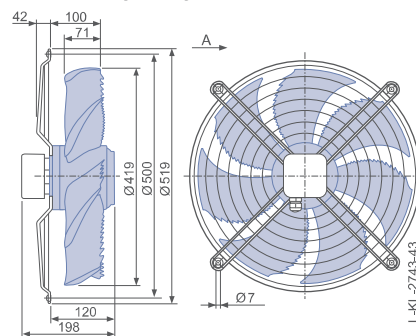
## Dimensions mm

### Airflow direction A

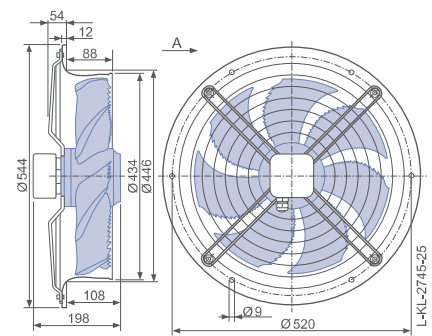
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design L - round full bell mouth, guard grille suction side








Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
		U V		I A	$P_1$ W	n min <sup>-1</sup>	
FN042-6E_OF_7P1	I	230	①	0.66	150	890	
		230*	②	0.56*	120*	930*	63
		230	③	0.50	110	950	64
	II	170	④	0.70	120	700	
		170	⑤	0.54	90	850	60
		170	⑥	0.42	70	920	63
	III	135	⑦	0.62	80	440	
		135	⑧	0.58	75	620	54
		135	⑨	0.46	60	830	61
	IV	110	⑩	0.52	55	330	
		110	⑪	0.52	55	420	52
		110	⑫	0.48	50	620	53

\*rated data

Fan ordering information

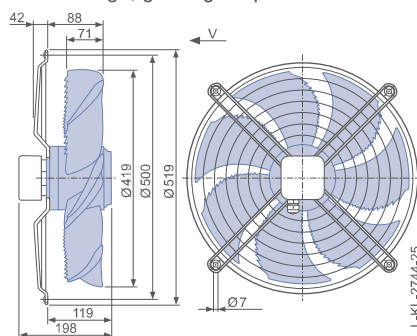
Airflow direction A		Airflow direction V			
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	I (guard grille pressure side)	H (guard grille pressure side)
					
<b>Type Article no.</b>	<b>FN042-6EW.OF.A7P1 155780</b>	<b>FN042-6ED.OF.A7P1 155778</b>	<b>FN042-6EL.OF.A7P1 155779</b>	<b>FN042-6EI.OF.V7P1 155782</b>	<b>FN042-6EH.OF.V7P1 155783</b>
Weight kg	5.70	5.30	8.00	5.30	7.70

Control technology

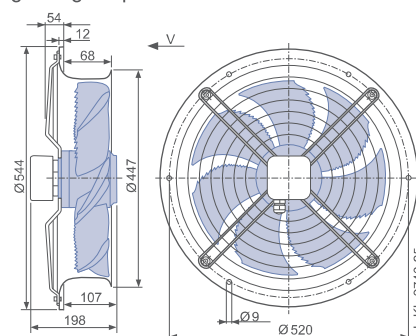
Frequency inverters Control 1~  Page 474	Motor protection units 1~  Page 518	Electronic voltage controllers 1~  Page 492
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Airflow direction V

Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side







Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
			U V					
FN042-VD_2F_7P1	Δ	I	400	①	0.64	350	1290	
			400*	②	0.58*	280*	1340*	72
			400	③	0.52	220	1380	72
	Y	II	400	④	0.36	220	980	
			400*	⑤	0.31*	190*	1080*	66
			400	⑥	0.26	160	1190	68

\*rated data

Fan ordering information

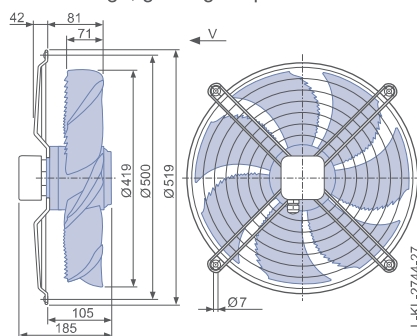
	Airflow direction A		Airflow direction V		
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	I (guard grille pressure side)	H (guard grille pressure side)
<b>Type</b>	FN042-VDW.2F.A7P1	FN042-VDD.2F.A7P1	FN042-VDL.2F.A7P1	FN042-VDI.2F.V7P1	FN042-VDH.2F.V7P1
<b>Article no.</b>	155773	155771	155772	155775	155776
<b>Weight kg</b>	6.20	5.90	8.50	5.90	8.20

Control technology

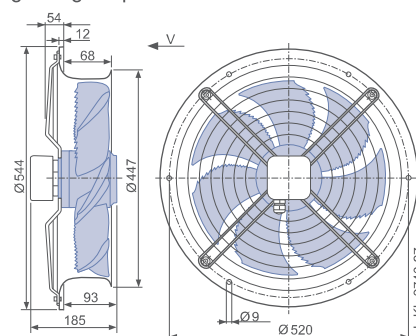
Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
Page 480	Page 518	Page 506

Airflow direction V

Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side





Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
			U V					
FN042-SD_2C_7P1	Δ	I	400	①	0.37	150	890	
			400*	②	0.35*	130*	920*	64
			400	③	0.35	100	940	63
	Y	II	400	④	0.17	90	700	
			400*	⑤	0.15*	80*	780*	60
			400	⑥	0.13	60	850	60

\*rated data

Fan ordering information

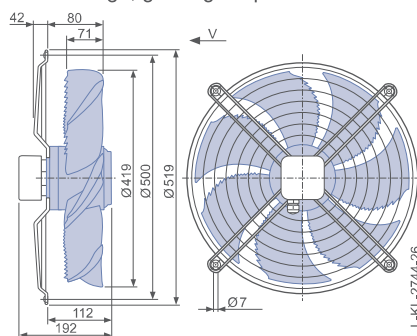
	Airflow direction A		Airflow direction V		
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	I (guard grille pressure side)	H (guard grille pressure side)
<b>Type</b>	FN042-SDW.2C.A7P1	FN042-SDD.2C.A7P1	FN042-SDL.2C.A7P1	FN042-SDI.2C.V7P1	FN042-SDH.2C.V7P1
<b>Article no.</b>	155787	155785	155786	155789	155790
<b>Weight kg</b>	5.50	5.10	7.80	5.10	7.00

Control technology

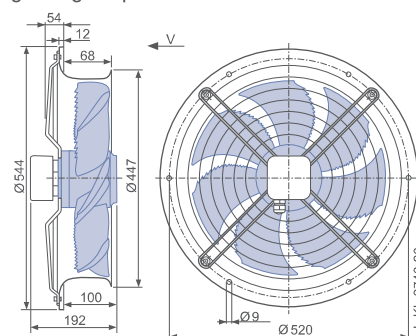
Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
Page 480	Page 518	Page 506

Airflow direction V

Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



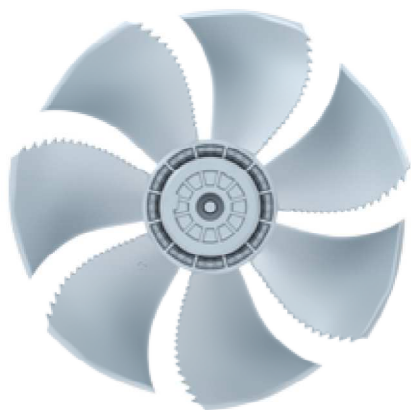
Design H - pipe sockets with a flange, guard grille pressure side



# FE2owlet

for single phase alternating current, 4 pole

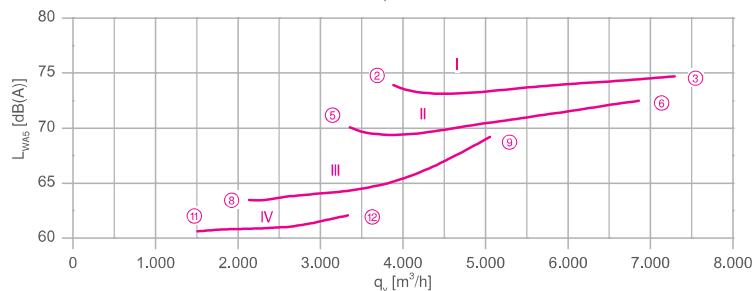
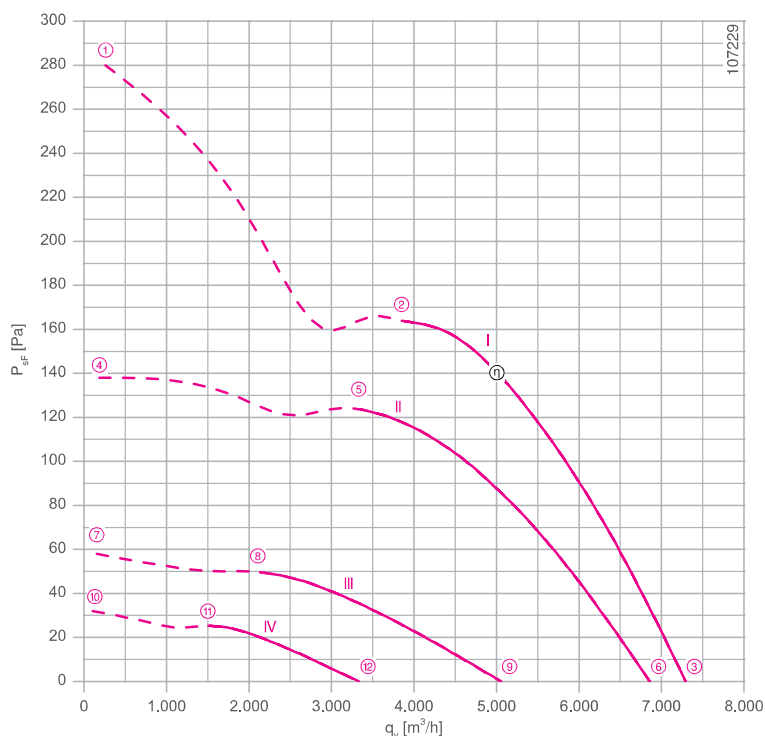
FNO45-4E



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 1~ 230 V $\pm$ 10 %\*  
 Rated frequency  $f_N$ : 50 Hz\*  
 Input power  $P_i$ : 0.60 kW\*  
 Rated current  $I_N$ : 2.90 A\*  
 Rated speed  $n_N$ : 1390 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 6.50 A  
 Current increase  $\Delta I$ : 25 %  
 Service capacitor  $C_{400V}$ : 14.0  $\mu$ F  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -25 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, uncoated  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 34.0 %  
 Efficiency:  $N_{actual} = 41.8 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

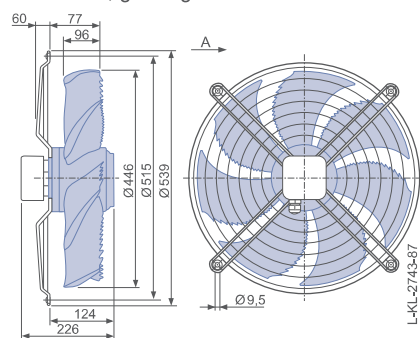
Connection diagram Page 531  
 for airflow direction A 1360-104XB  
 for airflow direction V 1360-104XA

System components Page 430

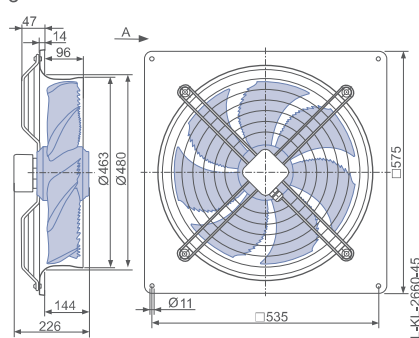
## Dimensions mm

### Airflow direction A

Design W - axial bolted, mounting for short bell mouth, guard grille suction side

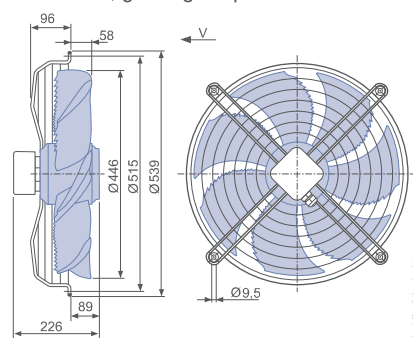


Design Q - square full bell mouth, guard grille suction side



### Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side





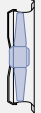


Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
		U V		I A	$P_1$ W	n min <sup>-1</sup>	
FN045-4E_4I_7P1	I	230	①	3.50	740	1350	
		230*	②	2.90*	600*	1390*	74
		230	③	2.40	500	1420	75
	II	170	④	4.40	620	940	
		170	⑤	3.50	540	1200	70
		170	⑥	2.70	420	1330	73
	III	135	⑦	3.70	390	610	
		135	⑧	3.50	390	760	64
		135	⑨	3.30	370	980	69
	IV	110	⑩	3.00	250	450	
		110	⑪	2.90	250	530	61
		110	⑫	2.90	250	650	62

\*rated data

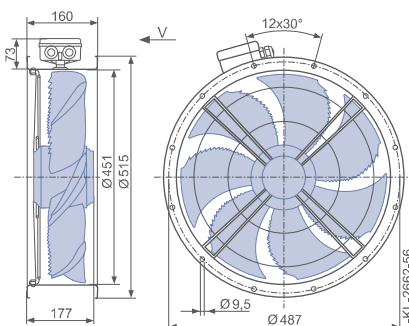
Fan ordering information

Design	Airflow direction A		Airflow direction V		
	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	F (without guard grille)	Q (guard grille pressure side)
					
<b>Type</b>	<b>FN045-4EW.4I.A7P1</b>	<b>FN045-4EQ.4I.A7P1</b>	<b>FN045-4EK.4I.V7P1</b>	<b>FN045-4EF.4I.V7P1</b>	<b>FN045-4EQ.4I.V7P1</b>
<b>Article no.</b>	<b>167870</b>	<b>167871</b>	<b>167804</b>	<b>167872</b>	<b>167874</b>
<b>Weight kg</b>	12.60	16.20	12.60	15.70	16.30

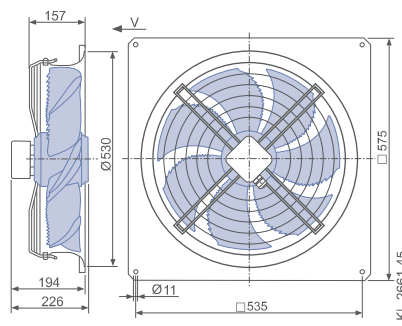
Control technology

<p>Frequency inverters Fcontrol 1~</p>  <p>Page 474</p>	<p>Motor protection units 1~</p>  <p>Page 518</p>	<p>Electronic voltage controllers 1~</p>  <p>Page 492</p>
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Design F - flange ring with two flanges, without guard grille



Design Q - square full bell mouth, guard grille pressure side





Performance data

Type	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level
		U V		I A	P <sub>1</sub> W	n min <sup>-1</sup>	L <sub>WA5</sub> dB(A)
FN045-6E_2F_7P3	I	230	①	0.56	130	570	
		230*	②	0.50*	120*	700*	54
		230	③	0.46	100	790	57
	II	170	④	0.44	75	380	
		170	⑤	0.42	75	480	45
		170	⑥	0.40	70	590	49
	III	135	⑦	0.35	48	280	
		135	⑧	0.35	46	350	40
		135	⑨	0.34	46	430	42
	IV	110	⑩	0.29	32	220	
		110	⑪	0.29	32	270	37
		110	⑫	0.29	32	330	38

\*rated data

Fan ordering information

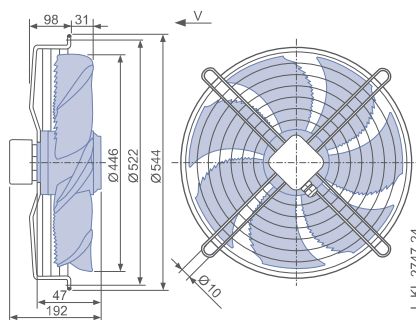
Airflow direction A			Airflow direction V			
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
<b>Type Article no.</b>	<b>FN045-6EW.2F.A7P3 160038</b>	<b>FN045-6ED.2F.A7P3 160036</b>	<b>FN045-6EL.2F.A7P3 160037</b>	<b>FN045-6EK.2F.V7P3 160042</b>	<b>FN045-6EI.2F.V7P3 160040</b>	<b>FN045-6EH.2F.V7P3 160041</b>
Weight kg	6.30	6.10	9.50	6.50	6.10	9.50

Control technology

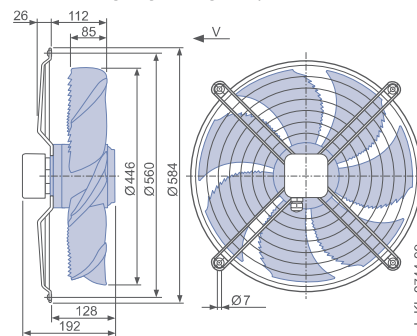
Frequency inverters Control 1~  Page 474	Motor protection units 1~  Page 518	Electronic voltage controllers 1~  Page 492
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Airflow direction V

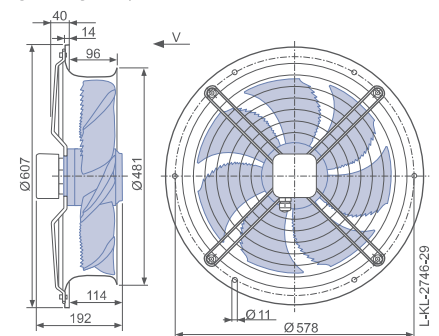
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



Design H - pipe sockets with a flange, guard grille pressure side





# FE2owlet

for three phase alternating current, 4-4 pole

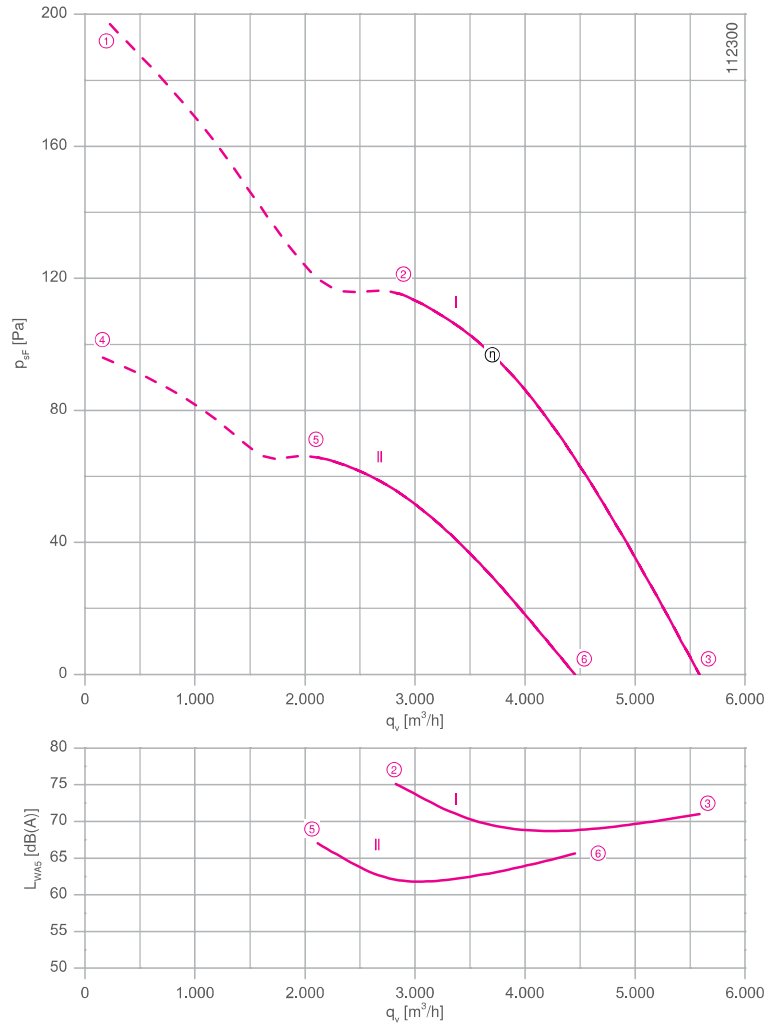
FNO45-VD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3- 400 V ( $\Delta/Y$ )  $\pm 10$  %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 0.34/0.21 kW\*  
 Rated current  $I_N$ : 0.64/0.34 A\*  
 Rated speed  $n_N$ : 1280/ 970  $\text{min}^{-1}$ \*  
 Starting current  $I_s$ : 1.90 / 0.65 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(\text{min})}$ : -40 °C  
 Max. permitted ambient temperature  $t_{R(\text{max})}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: High Performance Composite Material, uncoated,  
 Rotor: Aluminium, 1 coat paint, jet black  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{\text{statA}}$ : 31.3 %  
 Efficiency:  $N_{\text{actual}} = 40.6 / N_{\text{target}} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

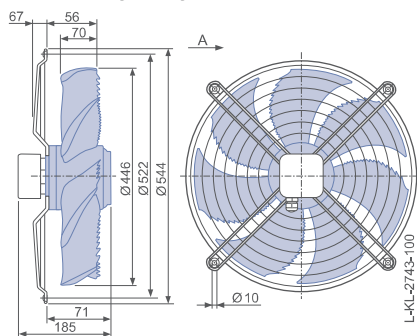
Connection diagram Page 531  
 for airflow direction A 1360-108XB  
 for airflow direction V 1360-108XA

System components Page 430

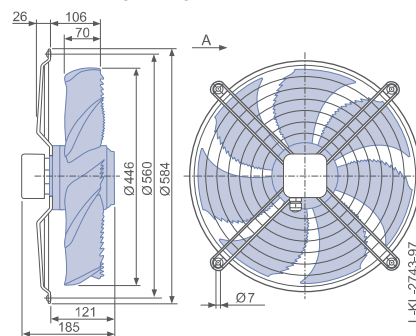
## Dimensions mm

### Airflow direction A

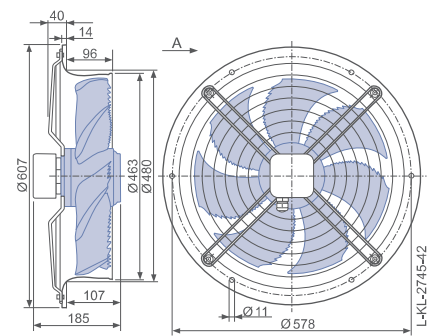
Design W - axial bolted, mounting for short bell mouth, guard grille suction side



Design D - axial bolted, suspension for full bell mouth, guard grille suction side



Design L - round full bell mouth, guard grille suction side









Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
			U V					
FN045-VD_2F_7P2	Δ	I	400	①	0.74	440	1210	
			400*	②	0.62*	340*	1280*	75
			400	③	0.56	280	1330	71
	Y	II	400	④	0.39	250	840	
			400*	⑤	0.34*	210*	970*	67
			400	⑥	0.30	190	1070	66

\*rated data

Fan ordering information

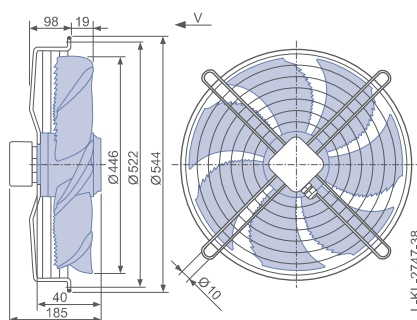
	Airflow direction A			Airflow direction V		
Design	W (guard grille suction side)	D (guard grille suction side)	L (guard grille suction side)	K (guard grille pressure side)	I (guard grille pressure side)	H (guard grille pressure side)
						
<b>Type</b>	FN045-VDW.2F.A7P2	FN045-VDD.2F.A7P2	FN045-VDL.2F.A7P2	FN045-VDK.2F.V7P2	FN045-VDI.2F.V7P2	FN045-VDH.2F.V7P2
<b>Article no.</b>	170371	170370	170372	170368	170369	170367
<b>Weight kg</b>	6.30	6.10	9.50	6.60	6.10	9.50

Control technology

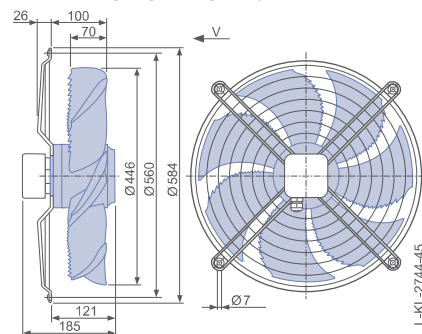
Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		
Page 480	Page 518	Page 506

Airflow direction V

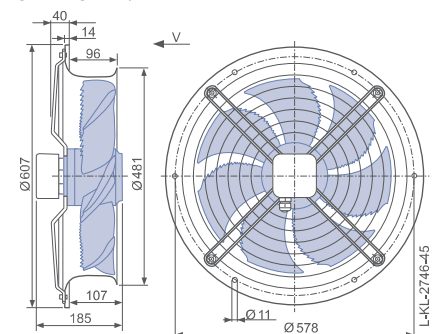
Design K - axial bolted, mounted for short bell mouth, guard grille pressure side



Design I - axial bolted, mounting for bell mouth flange, guard grille pressure side



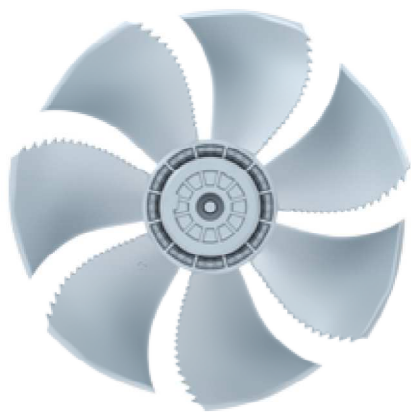
Design H - pipe sockets with a flange, guard grille pressure side



# FE2owlet

for three phase alternating current, 4-4 pole

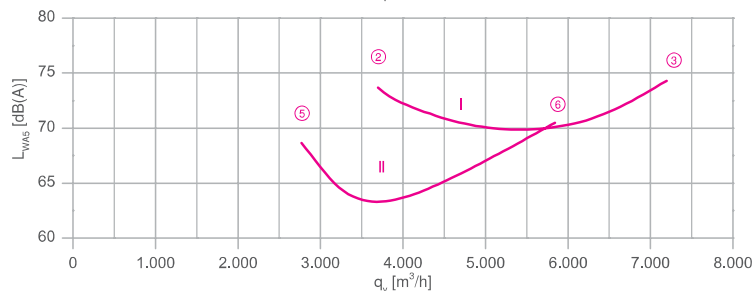
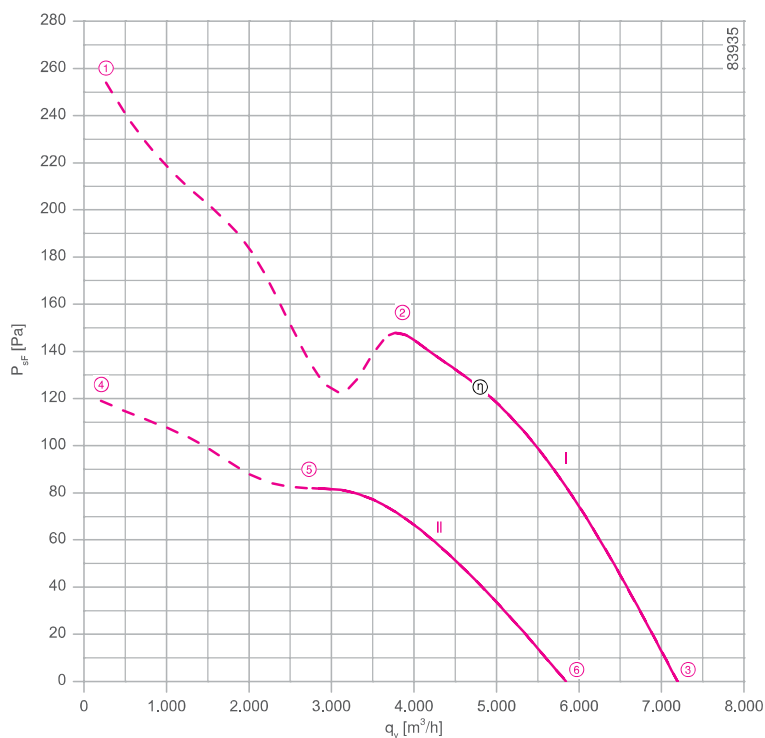
FNO45-VD



## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3- 400 V ( $\Delta/Y$ )  $\pm 10$  %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 0.54/0.36 kW\*  
 Rated current  $I_N$ : 1.10/0.66 A\*  
 Rated speed  $n_N$ : 1350/1020 min<sup>-1</sup>\*  
 Starting current  $I_s$ : 4.00 / 1.20 A  
 Current increase  $\Delta I$ : 10 %  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(min)}$ : -40 °C  
 Max. permitted ambient temperature  $t_{R(max)}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, uncoated  
 Conformity: ErP 2015, CE  
**ErP-data**  
 Efficiency  $\eta_{statA}$ : 34.0 %  
 Efficiency:  $N_{actual} = 42.0 / N_{target} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

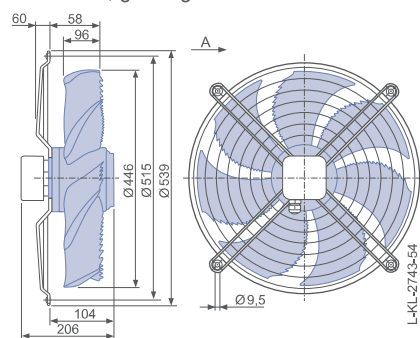
Connection diagram Page 531  
 for airflow direction A 1360-108XB  
 for airflow direction V 1360-108XA

System components Page 430

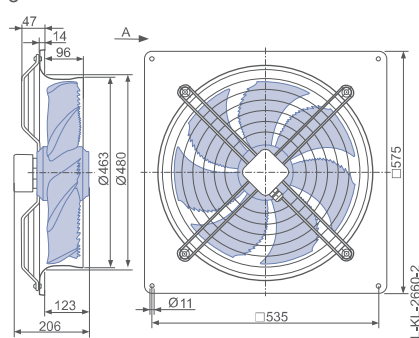
## Dimensions mm

Airflow direction A

Design W - axial bolted, mounting for short bell mouth, guard grille suction side

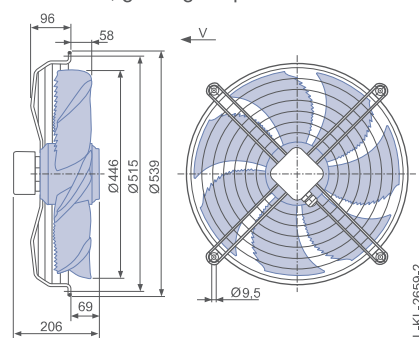


Design Q - square full bell mouth, guard grille suction side



Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side









Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
			U V					
FN045-VD_4F_7P1	Δ	I	400	①	1.30	680	1300	
			400*	②	1.10*	540*	1350*	74
			400	③	0.96	440	1390	74
	Y	II	400	④	0.76	420	900	
			400*	⑤	0.66*	360*	1020*	69
			400	⑥	0.60	330	1130	71

\*rated data

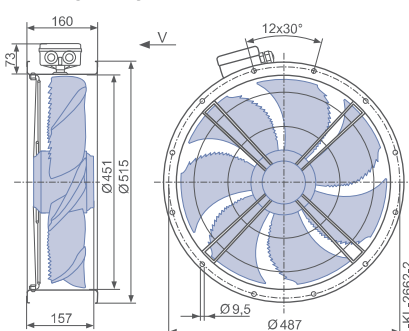
Fan ordering information

Design	Airflow direction A			Airflow direction V		
	W (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	F (without guard grille)	F (guard grille pressure side)	Q (guard grille pressure side)
						
<b>Type</b>	FN045-VDW.4F.A7P1	FN045-VDQ.4F.A7P1	FN045-VDK.4F.V7P1	FN045-VDF.4F.V7P1	FN045-VDF.4F.V7P1	FN045-VDQ.4F.V7P1
<b>Article no.</b>	153504	140106	140110	140118	140538	140114
<b>Weight kg</b>	11,00	14,60	11,00	14,20	14,50	14,40

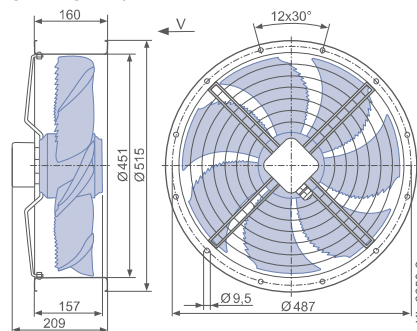
Control technology

<p>Frequency inverters Fcontrol 3~</p>  <p>Page 480</p>	<p>Motor protection units 3~</p>  <p>Page 518</p>	<p>Electronic voltage controllers 3~</p>  <p>Page 506</p>
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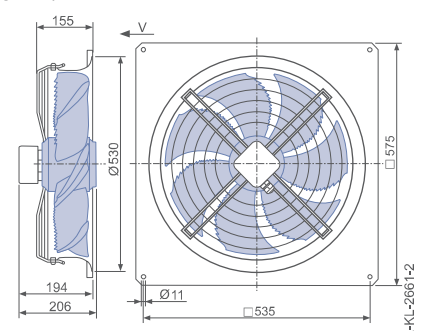
Design F - flange ring with two flanges, without guard grille



Design F - flange ring with two flanges, guard grille pressure side



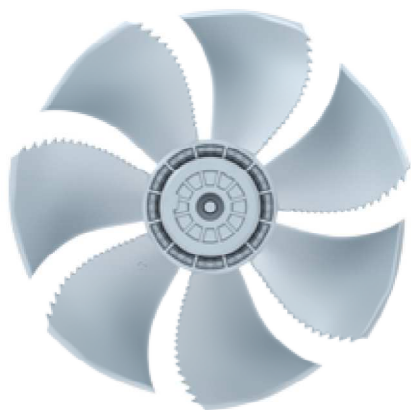
Design Q - square full bell mouth, guard grille pressure side



# FE2owlet

for three phase alternating current, 6-6 pole

FNO45-SD

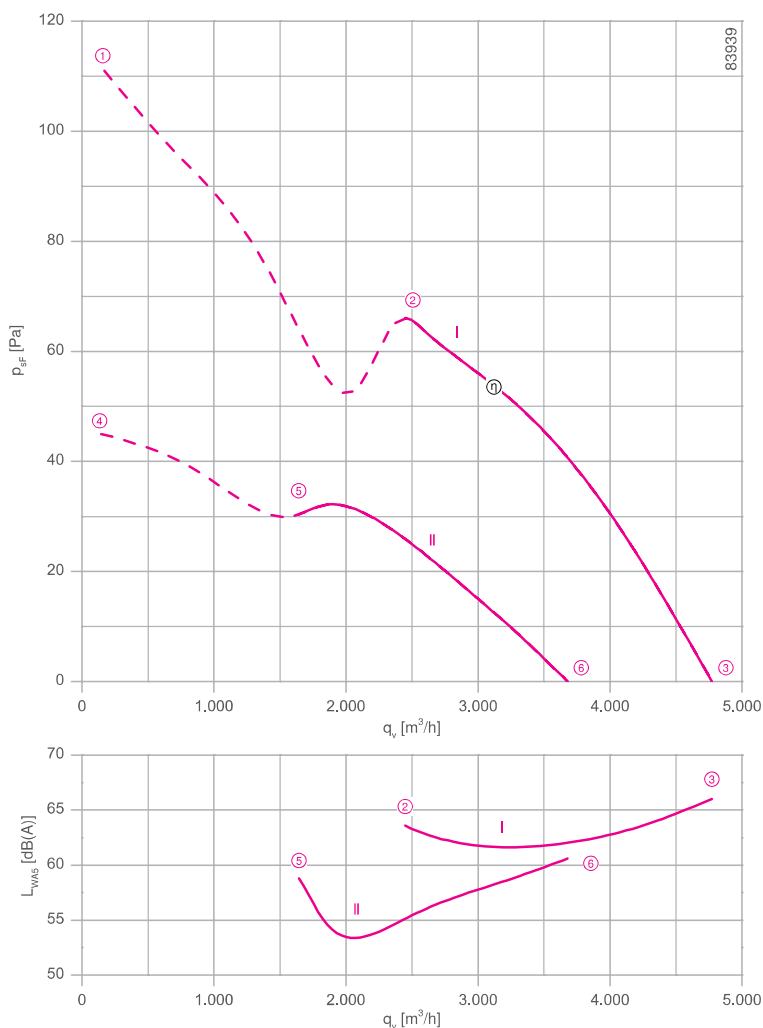


## Description

Motor technology: AC  
 Rated voltage  $U_N$ : 3- 400 V ( $\Delta/Y$ )  $\pm 10$  %\*  
 Rated frequency  $f_N$ : 50 Hz\* (60Hz data available)  
 Input power  $P_i$ : 180/100 W\*  
 Rated current  $I_N$ : 0.50/0.24 A\*  
 Rated speed  $n_N$ : 900/ 630  $\text{min}^{-1}$ \*  
 Starting current  $I_s$ : 1.10 / 0.32 A  
 Current increase  $\Delta I$ : 0 %  
 Thermal class: THCL155\*  
 Min. permitted ambient temperature  $t_{R(\text{min})}$ : -40 °C  
 Max. permitted ambient temperature  $t_{R(\text{max})}$ : 70 °C  
 Electrical connection: Terminal box  
 Number of blades: 7  
 Protection class: IP54  
 Motor protection: thermal contact  
 Blades: Aluminium, uncoated  
 Rotor: Aluminium, uncoated  
 Conformity: ErP 2015, CE

**ErP-data**  
 Efficiency  $\eta_{\text{statA}}$ : 29.0 %  
 Efficiency:  $N_{\text{actual}} = 40.0 / N_{\text{target}} = 40$ \*\*  
 \* Rated data  
 \*\*ErP 2015

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801

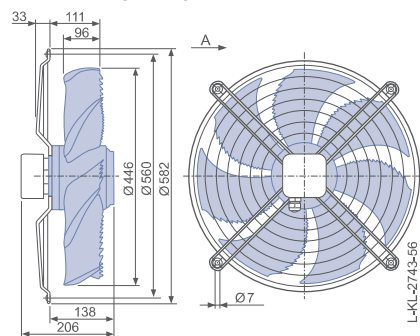
Connection diagram Page 531  
 for airflow direction A 1360-108XB  
 for airflow direction V 1360-108XA

System components Page 430

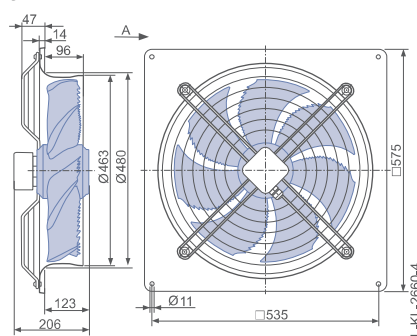
## Dimensions mm

### Airflow direction A

Design D - axial bolted, suspension for full bell mouth, guard grille suction side

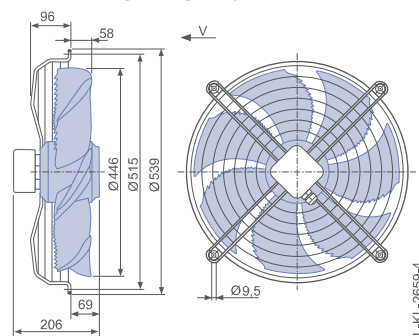


Design Q - square full bell mouth, guard grille suction side



### Airflow direction V

Design K - axial bolted, mounted for short bell mouth, guard grille pressure side






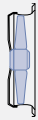


Performance data

Type	Connection	Characteristic curve	Voltage	Operating point	Current	Input power	Speed	Suction side sound power level $L_{WA5}$ dB(A)
			U V					
FN045-SD_4F_7P1	Δ	I	400	①	0.56	220	860	
			400*	②	0.50*	180*	900*	64
			400	③	0.46	150	920	66
	Y	II	400	④	0.27	110	550	
			400*	⑤	0.24*	100*	630*	59
			400	⑥	0.24	95	710	61

\*rated data

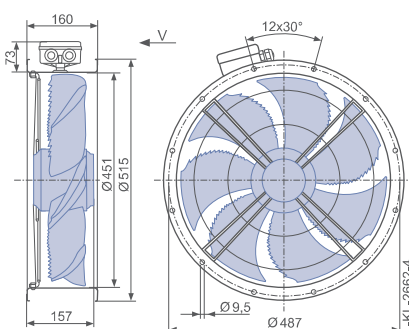
Fan ordering information

	Airflow direction A			Airflow direction V		
Design	D (guard grille suction side)	Q (guard grille suction side)	K (guard grille pressure side)	F (without guard grille)	F (guard grille pressure side)	Q (guard grille pressure side)
						
<b>Type</b>	<b>FN045-SDD.4F.A7P1</b>	<b>FN045-SDQ.4F.A7P1</b>	<b>FN045-SDK.4F.V7P1</b>	<b>FN045-SDF.4F.V7P1</b>	<b>FN045-SDF.4F.V7P1</b>	<b>FN045-SDQ.4F.V7P1</b>
<b>Article no.</b>	<b>155139</b>	<b>140108</b>	<b>140112</b>	<b>140120</b>	<b>140540</b>	<b>140116</b>
<b>Weight kg</b>	10,70	14,60	11,00	14,20	14,50	14,40

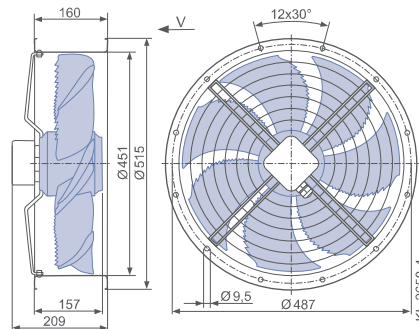
Control technology

Frequency inverters Fcontrol 3~	Motor protection units 3~	Electronic voltage controllers 3~
		
Page 480	Page 518	Page 506

Design F - flange ring with two flanges, without guard grille



Design F - flange ring with two flanges, guard grille pressure side



Design Q - square full bell mouth, guard grille pressure side

